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Christman, G.
1974-2000

Species Accounts
Part 1

Pelicanidae to Vireonidae

Christman, G.
1974-2000

Species Accounts
Part 1

Wetlands of Virginia

Chris Thomas

White Pelican
Pelecanus erythrorhynchos

1

5 Oct., ~~del Norte St., Berkeley, Alameda Co. Cal.~~
driving up Salsburg Ave., noon, seen
A circling & gaining elevation
to E (over my area).

29 May 1990 about 50 circling above hills
near house at 3:06 pm.

7 June 4:10 pm clear view 23 ± circling to
E

Christman
'96

Branta canad.

13 Oct.

9 am packing lat El Cerrito Playa
10 in "V" (6-4) overhead to NW, 50'.

10 Oct. 97 line of 15 to NW from Galano Ave

26 Jan. 98 8:40 am clouds, 17 flying to
NE rather high; have seen several times
in last months - on Galano Ave.

Christman
1989

at Blue H
Ardea herodias

1.

29 Sept

11:38 am one flew over quite low
heading NW (Jewel Lake?)

10 May 1990 8:44 am 1 flying N, high.

20 Apr 96 10:10 am clouds 1 to W; low, NW to SE

Christman
1990

Pandion

15 Mar., del Norte st. Berkeley, Alameda Co CA
8:38 am. behind up st. cedar fairly
close & low as sprey circling on
motionless wings continued to NW
gaining altitude. good look - rufous
dark above, white belly & black stripe
thru eye, etc.

Christman
1998

Casmerodius albus

25 May, del Norte St, Berkeley, Alameda Co. Cal
12:55 pm one flew over low from SE over
elms across the st & WNW over circle & then
to W. slow stately flaps. Of all things!!
19 Jan 95 1 flying NW at Hopkins-Sutter p.m.

Christmas
94

Tyto alba

12 Sept.

For the past month + have heard
calls at night, where previously
they were none. There
must be 1 marking in general area.
1 - 4 am & repeated screeches!
7 Nov at night have heard acc.
for several months.

Christman
1992-93 *Bubo virginianus*

21 Dec.

3 am I called near - within 50 yds
every 50-45 sec for 4 min.
rather high 'tone', 'who-who-
who, who.' Then at a distance
for 4 \pm minutes.

6 Mar 93 4:04 am clear, etc. I calling
in distance for about half an hour.

1912-13

21 Dec

3 am : cold - with 20-30
frost - 25-30 - 10-15
windy - light - 10-15 - 10-15
at night - 10-15 - 10-15
at night - 10-15 - 10-15
at night - 10-15 - 10-15
at night - 10-15 - 10-15
at night - 10-15 - 10-15

1990-91

Cathartes aura

- 27 Oct. del Norte St. Berkeley, Alameda Co., Cal
 12:52 pm clear, 1 low over house to
 W., 1 circle then NW, relatively low.
- 1 Nov 12 noon 1 slowly sailing NE to
 SW, gently tilting head & forth languid.
- 16 Nov 10:14 am 1 relatively low in straight
 glide from NW to S, then sailed to SW.
 fighting wind.
- 20 Dec 11:45 am 1 circling high off to W.
- 24 Dec 11:30 \pm pm from Salamo Ave. 1 rather hi.
- 29 Dec 4:15 pm near sun set 1 high to SW circling
- 9 Jan 91 10:04 am partly cloudy 1 from E
 sailing NW fairly low; gaining height to W
- 30 Jan 1 rather low to NW at 11:10 am -
- 1 Feb 11:25 am 1 circling high to W, then to N. 12:30
 another medium height circling to W. Then higher
 to NW. Then a red-tail above it out of NW.
- 18 Feb 3:19 pm sunny 1 circling very low -
 - 50' beyond "the circle" then gained alt.
 & off to NW.
- 28 Feb overcast, 12:49 1 rather low sailing
 SE to NW.
- 6 Mar 11:16 am clear calm 1 very high to NW ^{circling}
- 9 Mar 11:12 am cloudy, 1 W to NW
- 11 Mar 9:08 1 rather low from N to S did not
 scare out robins, waxwings, goldfinches
 or 1 house sparrow.
- 31 Mar 1:45 pm breezy overcast, 1, rather low,
 gliding fast W to NE wings partially folded. $\frac{1}{4}$
- 2 Apr 3:38 pm sunny 2 circling rather low to S
- 26 Apr 11:09 1 high to NW circling
- 4 May 3:22 1 circling fairly low to NW.
- 10 May 10:30 low to NW. ^{fairly low,}
- 21 May 10:54 1 gliding straight NW to SE. ^{7/8}

1. The first of these is the fact that the
2. second is the fact that the
3. third is the fact that the
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Christman
1991-92

Cathartes aura

7

- 29 May, El Portal St., Berkeley, Alameda Co., CA
1:28 pm overcast, breezy 1 tree level over circle.
- 3 June 3:14 pm 1 rather low to NW in breeze.
- 20 June 11:40 clear breezy; 1 leisurely
sailing fairly low from NW to E. no circling
- 9 July 3:13 pm Fog 1 high to W. sailing
- 21 July 4:33 pm hazy sun breezy 1, SE to NW, rather low
- 13 Aug 4 pm \pm Kensington, 2; 1 high, 1 low
- 28 Aug 1:19 pm 1 fairly low 50% fog. clear
- 1 Sept 1 seen in Kensington, rather low
- 14 Sept 12:30 pm 1 W circling to NE.
- 1 Oct 2:07 pm clear 1 sailing/glider
from SW to NE fairly low
- 10 Oct 2:23 hazy clear 1 circling, medium
height from NW.
- 28 Oct 12:11 am clear 1 circling low NW to
overhead - has been windy.
- 30 Oct 10:03 am 1 low over house sitting
& circling to W. clear; occasional wind!
- 11:20 = 50% & a Monarch.
- 31 Oct 1:31 pm clear calm 1 low NE to SW.
- 8 Nov 8:50 am calm, fog 1 circling rather
low W to NE; tail spread most of time.
- 20 Dec 12:02 pm clear & windy 1 very high W.
- 23 Dec clear, calm (no breezes) 1 in glide SE to
NW well over tree level.
- 13 Jan 92 12:23 1 high sailing NW to SE clear. calm
- 23 Jan 1:45 pm partial overcast 1 circling
rather high, calm, SW to SE.
- 29 Jan 10:13 am scattered fog, some blue,
1 circling to NW.
- 1 Feb 1:06 pm clear with several huge towering
cumuli (W & NW-N). 1 W to NE, medium height.
- 3 Feb 10:58 clear 2 circling overhead 200' up, to W.

Christman
1992

Cathartes aura

8

- 4 Feb. del Norte St, Berkeley, Alameda Co., Calif
12:54 pm 1 high to W, huffed by wind.
- 12 Feb 10:18 am clouds, 1 just over tree tops
to W, flapping & sailing to N in circle.
1:41 high umalas, sunny, 1 medium height, ^{into}
partly flexed wings sailing fast N to S wind.
- 15 Mar. 10:43 am 1 from NW to SE irregular
glide a few flaps; rather low. 10:47 another
at same gliding N to S straight line.
- 22 Feb 1 circling - sailing rather high off
to W to SW, sunny day. 1:47 2 sailing
off to W to NW; 1 higher than the other.
- 16 Mar 1 circling high at 11:54
- 25 Mar 12:09 overcast 1 circling sailing
from medium height to low on fixed
wings, then up in circles, higher to NW. 12:22
1 low to NW circling. 2:24 pm 1 low over
cedar & on to W in a long effortless glide.
- 4 Apr 10:43 am hazy clear, 1 15' above trees,
W to E over house, gliding in slight breeze
- 23 Apr 11:21 am 4 circling high to W
- 25 Apr 9:28 clear, calm 1 circling high N; also
saw 1 yesterday afternoon miles outside.
- 30 Apr 3:36 pm 1 from W low to NW to height
- 6 May 3:30 pm windy - clear fog 1 fairly
low between here & Kensington.
- 9 May clear, breezy, 10:49 1 out of W, low
in several sweeping arcs to SE, ^{wings} motionless
- 16 May 11:09 am sunny - 1 at tree top level
N to S could see its eye - 1 min. + higher to NW
- 28 May 10:47 1 sailing straight NW to NE, lowish
- 1 Jun. clearing 1 fairly high circling, N to W.
- 20 July 1 2:10 pm clear, breezy, 1 to W circling rather low
- 30 July 3:53 pm clear 1 NE to W low sailing
- 14 Dec 10:53 1 circling off to NW fairly low

The first thing I noticed when I stepped
 out of the car was the cold. It was a
 sharp contrast to the warm blanket of
 the car. I shivered slightly, but then
 I remembered that this was the first
 time I was going to see the doctor.
 I took a deep breath and walked
 towards the building. The door was
 open, and I saw a nurse standing
 there. She smiled at me and led me
 to the examination room. I sat down
 on the table, and she asked me how
 I was feeling. I told her everything
 that had happened, and she nodded
 her head. She then took out a stethoscope
 and listened to my heart. She
 looked at the results and smiled.
 "You're doing great," she said.
 I felt a wave of relief wash over
 me. I had made it. I had seen
 the doctor, and everything was
 going to be okay. I stood up and
 walked out of the building. The cold
 was still there, but it didn't matter
 anymore. I was home.

Christman

93-94
95

Cathartes aura

9

12 Mar 93

11:29 May clear / circling rather high
2 Apr 3:39 overcast / rather high
same flaps - no wind or thermals.

26 Apr. clear 12:30 pm / fairly low
circling in light wind Salado Ave.

3 July 10:22 am clear, warm / tow. high-

28 Aug 4:29 pm clear Hot / off to W gaining
altitude

20 Nov dull overcast, 11:30 am. / sailing
easily from NE to SW then higher in circles

22 Nov. 11:24 low cumulus, 3 circling rather
low from SW to N. periods of bright sun.

26 Apr 94 9:56 am. / to W, S to N, circling

13 May 3:37 clear, / gliding rather low E to NW.

20 July 2:30 / soaring in Kensington.

13 Oct 11:45 / S to NS long glide.

24 Jan 95 / rather high circling 4 to E 1:11
with clouds

2 Feb 9:15 am windy / clear / to NW, low

31 Aug 11:55 am clear / fairly low to W.

25 Oct 1:21 clear (few cirrus) / circling ^{to W} to W.

20 Nov. 12:30 pm cirrus cover. / circling
rather low to NW, then higher to W.

7 Dec 1:56 pm clear, except small patches of
dispersing fog. 3 from S., rather low to N,
1 veered off to W.

12 Dec 2:27 pm partly clear, after heavy rain &
wind. 1 from NW to SE over hawthorn tree top
level - very low for C.a. lowest ever!

16 May 96 2:08 pm clouds & wind / circling
fairly low, tossed about.

8 July 2:02 pm Fog / soaring - rather low ^{to W}

17 July 3:15 W. wind, fog coming in / rather low to NW

Christman

96-98

Cathartes aur.

31 Oct

sunny small cumulus 1 circling to SW.

11 Apr 97 1:05 pm clear, occ. breezy - 2 from N rather low, then to W.

6 May 4:59 pm high cirrus. Looked up from a mystery navel & there on NW edge of ledge was a turkey vulture - the closest I've ever been to a live one. So back track - I'd had 100 rats of late, so last weekend I put out a trap (normally used to transport Fox Sq.) so the 4th of May I caught 1. It tried to get out, but got caught in mesh trying to get out - dead! T.V. was in for at least 30 sec. - saw me (tho I froze) then flew to S. presumably to near cedar.

12 Aug 10:34 am clear 1 circling to NW, ^{1 eye} ^{long}

4 Oct 1:50 pm clear 1 circling fairly low to W

18 Dec. 1:20 pm clear breezy 2 circling to SW medium height then higher to NW.

3 Jan 98 10:34 am huge cumuli to N breezy rain last night. 1 rather low to W.

20 Jan. 1:50 pm variable clouds 1 circling to NW

30 Jan 2 pm ± walked outside, saw big shadow - looked to sun = a T.V. at roof level 2 houses down! later saw 1 soar near

13 May 12:20 pm 10% clouds 1 fairly high to S

30 May 11:32 am clear, spot of fog - see a lot of accipiter, cooperi

11 July 12:15 pm clear 1 high to NW

12 Aug 1:21 pm clear Nat. 1 low over house to W.

7 Sept 1:20 pm cirrus, 1 rather low, from N, then NW

20 Sept 1:15 pm clear, 1 low NW to SE, slowly.

1. *Chlorophyll a* (Chl *a*)



1990

The first of these is the fact that the
 government has been unable to raise
 the necessary funds to carry out its
 policy of non-interference. This is
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 interference. This is due to the fact
 that the government has been unable
 to raise the necessary funds to carry
 out its policy of non-interference.

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them. The list includes names such as "John A. Smith", "John B. Smith", "John C. Smith", "John D. Smith", "John E. Smith", "John F. Smith", "John G. Smith", "John H. Smith", "John I. Smith", "John J. Smith", "John K. Smith", "John L. Smith", "John M. Smith", "John N. Smith", "John O. Smith", "John P. Smith", "John Q. Smith", "John R. Smith", "John S. Smith", "John T. Smith", "John U. Smith", "John V. Smith", "John W. Smith", "John X. Smith", "John Y. Smith", and "John Z. Smith".

[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]

Christman
98

Cathartes aur

13 Oct

12:20 pm fog, 1 to w. mod. height, to NW much higher.

29 Oct 11:05 pm blue, small cumuli; 1 sailing, NE to SW

6 Dec 12:49 pm clear, 1 circling to NW

8 Dec 1:28 pm clear, 1 circling to far NW

16 Dec 1:51 pm clear, some wind, hot; 1 to w, sailing
N with a few flaps

79 17 Mar 2:30 am clear. 3, 100 yds apart
sailing NW to SE - rather high.

8 Apr '99 2:43 pm sun-blue heavy clouds
& wind - 1 tilting about overhead to NW

5 July 10:35 am clear; 1 sailing relatively low
NW to SE well above tree level.

29 Oct. 2:12 pm clear calm, 2 circling low to w

20 Feb 2000 1:48 pm cumulo nimbus - 1
sailing N to S well above tree tops.



Christman
1988-89

Buteo jama.

2

27 May, del Norte St., Berkeley, Alameda Co., Calif.
4:14 pm fog one low towards the W. - no
reaction from 6 doves on line.

30 May 2:04 pm one low to W. soaring/buzzing

3 Sept - one at 1:10 pm circling fairly low NW

28 Sept one flying down Galano Ave (1 mi
W) at 2 pm - low & soaring.

13 Oct 1:18 pm one soaring to NW - high

13 Nov 9:20 am low clouds - storm breaking
up, one adult soaring 75' above trees
from S to NW - was inhibited almost by
wind. broad circles.

5 Dec. 11:16 am one circling high to W. tail red.

1 Jan 89 1 soaring to NW at 3:30 pm - high

14 Jan 12:09 pm clear, 45°F, 2 low to NW
they circled higher & higher to overhead,
and on to the E.

15 Jan 1:21 pm out of NW one to SE low over
house - flapping & gliding, 30' over trees, etc.

16 Jan 11:40 am one near mid height to SE.

30 Jan 12:17 pm one soaring in circles to W
higher & higher. tail not red, darker, rest ab.

26 Feb. 1 pm one soaring in circles far to NW
with a new red tail - dorsally.

18 Apr. see Cedar & during a set. 12:19 pm
breezy fog, this sp. from N to S fairly
low - 200'. Head down from angle of
body - a long slow glide, tail spread

8 May ^{10:30 am} one low to NW fog & wind one
same circle. 2:35 pm one from W to E
low & 100 yds to N.

27 May 3:05 pm one to S from N 50' over trees - glide. Adult

9 June 80% fog, breezy at 12 noon one
100' over trees soaring from N to S.

Christman
1999

Geese Jan.

3

24 June del Norte St., Berkeley, Alameda Co., CA
10:48 am clear, very breezy - one ad with
red tail soaring very low over head -
30' above tops of elms, circling (off to E?)
its shadow on trees is very obvious.

25 June 11:13 am one circling 100' over
trees, from SE to W. in vee primaries
missing; tail red, seems to be adult.

26 June 1:07 pm breezy & fog are apparent
from E circled low over W-NW in front
of me. Gained same height 100' to 200' \pm
- in mind, rather jerky circles - then
set sail directly S - again no birds
feeding or landing & no alarm call
noted.

1 July 3:02 pm - clear in constant breeze
one ad. circling 100' over trees to W. moving
in circles S to N.

18 Sept 11:11 am 90° to clear one low sail &
flaps from NW to S. tail folded narrow

24 Sept noon \pm one from NE in a long
fast glide, wings half folded descending
to SW, it was very intent

The only real prey item for this sp. in
an urban area is the Fox Squirrel,
or perhaps small cats.

22 Oct. 12:54 pm quickly one out of NW
low & wheeling about in wind
50' + over tops of elms to SE. ^{dark} bird.

15 Nov 9:51 am one ^{9 adx or} from NW ~~low~~ & flapping
then 150 yds WNW began circling & in 20 sec.
was really high to NW - slight breeze, ^{over} cast.

24 Nov 12:26 pm two circling pretty high
to NW gaining altitude. red-tails!

Christman
1989-90

Buteo jam.

4

27 Nov.

10:05 am clear and circling overhead to E from W. 75' above trees.

7 Dec 10:39 am one off to W. fairly low circling - soaring - flapping - no wind 56°F going higher - mid height 500

10:42 higher WNW. 10:45 higher still to NW.

27 Dec 11:47 am fog one W to N soaring fairly high, flapped briefly to N. no breeze.

30 Dec 1:55 clear, still 56° in shade, 1 med. height and head circling, not much red in tail - soaring.

8 Jan 1:34 pm cloudy. one circling fairly high with 7 Cooper h. circling above!

14 Jan 1:29 pm. weathered dark - one circling to S fairly low, broad wing, wide red tail

3:53 pm clear, slight breeze. was working

26 Jan - when sudden doves on roof took off mildly & flew WNW low. Looked up & a red-tail hawk came flashing over roof, less than 15' away. Saw red tail! then up across roof, etc & turned to S. Amazing.

30 Jan. 2:58 pm one red tail id. to W med. height circle - soaring to NW higher.

31 Jan 12 noon - diving on calusa ave saw one very high circling then on set wings - with tail fully spread it descended with no body, etc motion. There was a gap between tail - wings & between inner, most secondaries - tertiaries & body. a relatively slow "motionless" descent.

5 Feb 2:57 pm 1 high circling off to W, to N.

6 Feb 2:02 pm 1 circling med. height to NW

Christman
1990

Buteo jam.

5

7 Feb, del Norte St. Berkeley, Alameda Co., Calif.
12:15 pm 1 circling from W. low to E. no
birds about.

8 Feb. 10:50 am cloudy one very high to NW
circling slowly

10 Feb 2:32 pm 2 real high, circling
off to NW.

12 Feb 12:57 pm one circling/soaring rather
high to W then overhead.

16 Feb 1:51 pm. bright clouds after rain.
out of NW — this sp.? a big in a half
opening glide — stoop to S. straight
& not fast. Have seen this what 4 times?

21 Feb 1:12 pm. one very high circling out of
NW to overhead.

22 Feb. 11:10 am 1 fairly low circling/soaring
NW to SW.

5 Mar clear 60°F sun, 1 sailing N rather
low, then circling medium height to NW.

6 Mar 9:21 am 1 circling low from NW
over top of elms — 25' above them.
bright red tail & dorsal "mildew" near
base of primaries.

8 Mar 12:42 pm scattered cumuli; one high W

10 Mar 3:07 pm cumulus, wind. 1 from S in long
glide to NW, then circled there from 10 to hi.

11 Mar. 11:23 am. once again a large bird —
dark on set wings in a shallow fast glide
out of N behind & below tops of elms up & r
to SW — up turned wing tips — dark thumb
it's a raven but this sp. There are Columba
livia a black + in that direction.

15 Mar 12:36 pm overcast, 1 fairly hi, NW circling to N.

2:06 pm 1 circling high W to E. 2:33 1 circling NW to E,
fairly low to high.

Christman
1990

Buteo jam.

5

13 Feb., Ed route so., Berkeley, Alameda Co, CA

12:24 pm 1 medium height off to W in a minute plus it moved to NW to great height circling - in a thermal.

4:10 - 1 med. height soaring in wind (NW) to NW - became lower before disappearing

14 Feb. 12:05 pm one with red-t. medium height from NW to over head. soaring circles

1:02 out of NW low circling & flapping. no red on ventral tail, only what I saw.

15 Feb. 2:12 pm part clear, calm. 2 medium height to very high W to NW.

8 June 11:29 am 1 N to S, 50' over trees in slow glide, not a stoop.

22 Oct 11 am diving, 1/4 mi SW house - one soaring over hills to NE.

30 Oct 8:47 am 1 circling off to NW; some flapping - sun just out, still much fog.

13 Nov. 12:11 pm overcast 1 high off to NW circling to N.

17 Nov 9:38 am clear, calm 1 at tree top level S to over circle, flapping lots, trying to soar & off to W still low. 12:16 pm 1 sailing on motionless wings NE to SW very low (for a buteo) 35' above trees - red-tail. 1:15 bright sun - 1 high circling NW

3 Dec noon overcast 2 circling high W to E

5 Dec 10:52 am clear, 1 over house 15' from NE to SW sailing then flapping on base the pigeons on upper balcony is goal? 10:58 1 circling 150' + to SW - W, ^{ward}

24 Dec. 1:50 pm 1 ad. circling, to W then S., ^{ward} swoop down.

29 Dec, clear, some wind 12:27 pm 1 very high to W, another low, W going N with few flaps. red tail

Christman
1990

Buteo jama.

6

15 Mar. ~~El Norte St., Berkeley, Alameda Co., California~~

3:28 pm one high & dark off to NW.

24 Mar 3:45 pm 1 from an motionless wing slowly gliding straight, out of N, to overhead.

25 Mar. 10:18 am 2 below or at tree level behind up st. elms at the circle one dove at other which turned to NW other gained height circled to S. then well over tree height, then to W. This individual is very dark & bright red-tail.

28 Mar 9:54 am out of N well over trees a $\frac{1}{2}$ folded wing glide down area just W & S of Main ave. then up & circling - a minute later 2 circling low to SW. This same pattern!

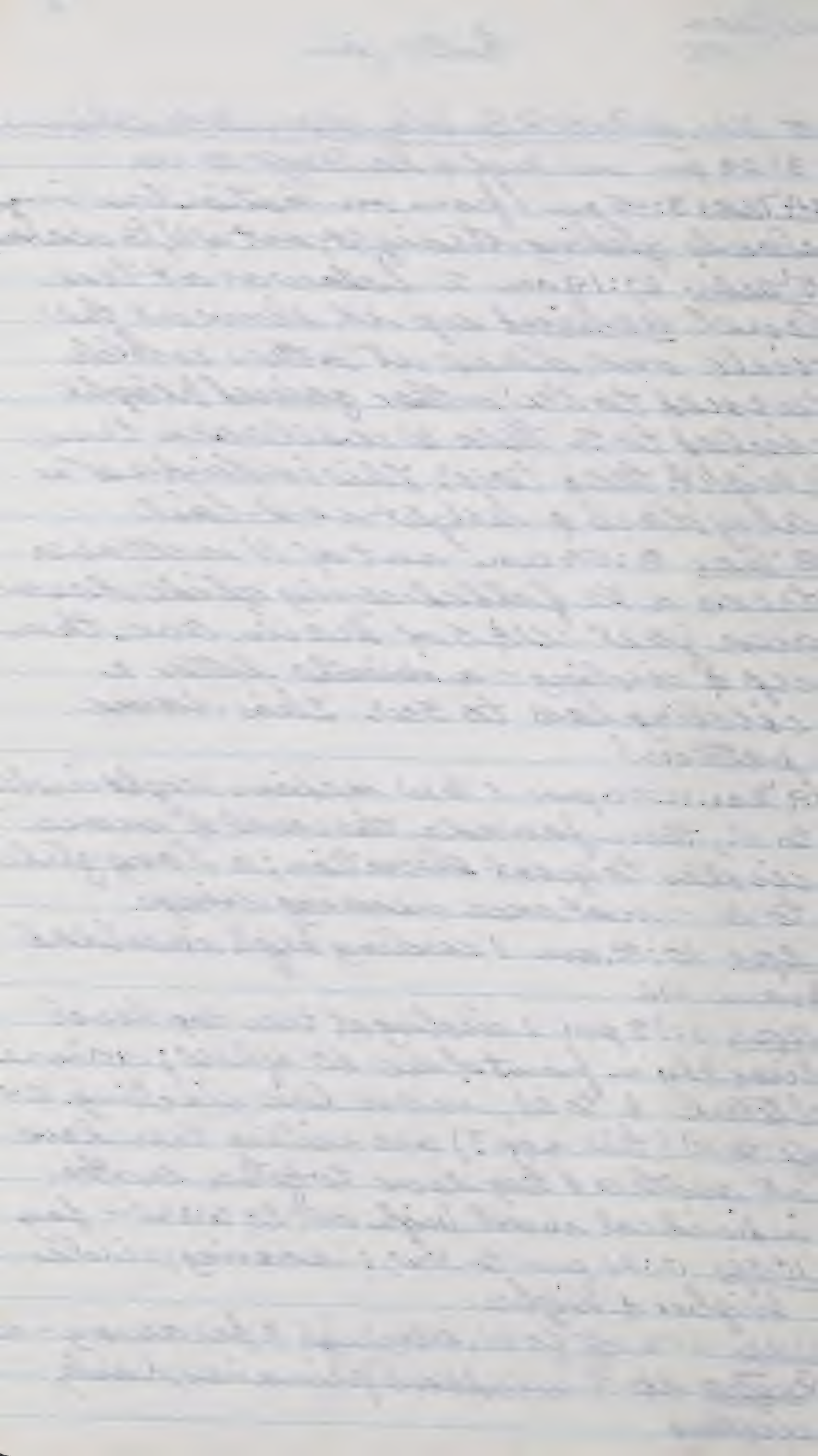
29 Mar. 12:56 pm 1 to W. medium height circling to N., then found a thermal & more circles to great elevation; a long glide to N. - not once making wings.

5 Apr 10:32 am 1 circling high overhead from NW.

6 Apr 1:19 pm 1 circling at tree top level directly in front of me 60 yds W; gained altitude & to W, more low circling. 2:05 off to W (this spp?) one sailing then dove at another & they dove together. another individual much high. all to WNW - fog

10 Apr 12:21 pm to NW, 1 soaring, circles higher & higher.

11 Apr 2:46 off to W, very high & far away - a Buteo sp. ? "windmill" primaries, dark, circling



Whistman
1990-91 Butco jam.

7

27 Apr, del Norte St, Berkeley, Alameda Co, Cal.
1:20 pm 1 circling, moderately high over house.

30 Apr 3:02 pm 1 low leisurely gliding
NW; then set wings in a descending glide
to SW. Fairly low

1 May 4:15 pm 1, NW gliding - circling to NE
with a bright red tail.

5 May 4:52 pm clear hat, 1 low SE rather
low, gliding to NW.

29 May 1:30 pm overcast breeze; 1 low to SW

1:32 now soaring circles way off to W

30 May 11:23 am 1 to N circling

25 Jan 91 11:30 am FOG 1 off to NW -
high in slow circles soaring. 1:16 pm
hazy sun - a Stellar J. calling loudly
out window as a Red-tail flew low
over house - sailing to W!

28 Jan looked up from desk - 1 with bright
red-tail on top of up st cedar; ruffled
feathers, peered intently. set wings &
sailed NW. disappeared for 3 min. Then
flapped to utility pole momentarily,
then sailed low & landed in top of
^{cypress} ~~cedar~~ at bottom of st. & scrub jay followed
it & another then top of up st cedar.

This is a first. 1:17 still top of cypress & has
a small branch in bill! 1:22 flew S then
circling higher & to E. didn't take branch. The
scrub J in up st cedar moved to horiz. branch
7' from top - were inconspicuous. 1:24 it flew
Of course it could be looking for Fox Gp who
are now feeding in tops of elm trees.

30 Jan 12:27 pm 1 top of up st cedar - facing N.
now facing W. It seems huge! 1 dove in W down.

Christman
1991

8

Buteo jam.

30 Jan., Del Norte St., Berkeley, Alameda Co., Cal.
lots of car traffic below us. No bird activity
do not after Fox Sq. ? 12:39 it dove down
& it seemed to the island in the circle
! then with feet down, flew low to the
flat topped cypress lawn street from
me & is bending over pulling at some-
thing - did it catch something? There
is a branch in the "cay" so - same place
as previously - Not in bill. 12:43 flew
? perhaps low to a pine - this is also
the area I dove to last year in spring.

31 Jan overcast, out of W, slow & low
sailing, then after flaps & up to top of
up street after a fast sweep up. now
facing W. This at 1:03pm. No birds or Fox Sq.
in evidence. Workmen working on road
at circle below hawk, plus traffic & back-
up bells. Is this a case of a bird adapting
to the urban-resident environment?
In the most obvious, prominent spot
available. I dove hunched up in W. elm 9' from
top. hasn't moved. Off in distance (NW?) a
stellar J. calling. Tail is red & saw yesterday
the center's white. 1:26 a Fox Sq. running thru
the aab. 1:32 1 robin to top NW elm. 1:35 flew
circling over circle - robin in place. Still
circling to NW low. robin in place - robin
calls. R-t. disappeared - no back circling
higher to NW. still circling 200' ± at 1:37
house finches on line - no attention.
2:08 1 Fox Sq. high in elm up st, low ledge here!
1 Feb. 12:30 1 out of NW high, circling, frequent
flaps disappeared to N.

Christman
1991

9.

Buteo jam.

1 Feb., del Norte St, Berkeley, Alameda Co., Calif.

12:42 thin overcast 2 high circling, some flapping (calm) & another lower. all to NW.

12:45 2. very high far to NW. head wings fanned tail.

12:48 1 on set wings from WNW with set wings, flight hairy: then a dip & flew up to perch in top upst cedar. Landed facing me - i.e. E, then turned to face W.

Several doves in elms - quiet. The scapulars on either side of back feathers are a bit lighter than back, so there is a subtle "V" on dorsum. Actively preening about.

No warblers & yellow backbones today.

12:55 glided SW & a flock of robins sailed out of trees to W.

3 Feb 12:10 1 very high out of NW to overhead, another lower circling same - the latter set sailing to NW. No

action of 8 robins upst cedar or in top of upst elms. 2:46 clearing, 1 gliding NE to SW in front of me & 150' up.

4 Feb 11:11 am overcast - looked up R-t.

in top of upst cedar again - facing W. - 10

robins in top upst elms & ~~all~~ NW elm = 28

robins, plus house finches. Fox Sq feeding on my landing. 11:23 hawk sailed down low -

to E - disappeared & robins didn't panic

up flight from E. 11:30 still robins in NW elm

and 1 Fox Sq. on landing - 1 went into Pittos

to N. The distance of upst cedar to NW elm = 50 yards.

5 Feb 12:24 pm cloudy, down stairs - he's back

at top upst cedar, I see no robins or doves

and another circling very high overhead.

Handwritten text in Urdu script, consisting of approximately 25 lines. The text is written in a cursive style and appears to be a letter or a formal document. The content is mostly illegible due to the low contrast and blurriness of the image.

Christman
1991

10

Buteo jam.

- 5 Feb, Edwards so. Berkeley, Alameda Co CA
12:30 flew up & to SE distant over head,
then in 30 sec. 9 salins landed in NW corner
9 Feb. 2:48 pm sunny. Larger bird in shallow
glide N to S over circle, fast. Later have
seen several rock doves on electric lines
75 yds SW of circle.
11 Feb 11:45 sunny, 1 circling medium height
12 Feb 9:27 am fog, 1 sailed over house only
fairly low to W, no wing beats. As if
gliding low to the pigeons that gather in
the upper garden area? 2:51 pm 1 circling
mid-elev. to NW
13 Feb 11:35 am sunny 1 high off to NW?
16 Feb 12:08 pm R-t. hawk in top of upper
cedar (saw it there - 1 min.) then it glided
to top of tree above as beside, the tunnel
2:40 clear & same breeze 1 W to NE circling high
17 Feb 4:17 pm sunny clear 1 very high far to NW
18 Feb 10:53 am clear, 1 sailing NE to SW medium
11:56 now circling high to NW S to N
2 Mar cloudy, gusty winds 1 pm 1 fairly low
3 Mar 4:15 pm scattered 1 circling high to NW.
5 Mar 12:15 pm 1 well over trees lazily
sailing to NW.
26 Mar. 1:23 pm overcast, calm. 1 NW to SE
100' above trees soaring & flapping.
27 Mar clear 4 pm 1 circling low to W, then
higher to NW - nice red-tail.
2 Apr 4:01 pm clear, warm 1 circling high off to NW.
4 Apr 3:03 1 circling very high to NW.
8 May 1:10 clear, windy, 1 very high soaring NW.
5 Aug 1:30 pm fog 1 in slow glide 50' above
trees to SW from N - a bit of a breeze.

Christman

11

1991-92

Buteo jam.

- 7 July, del Norte St., Berkeley, Alameda Co., Calif
12:58 1 circling high to NW. Tag.
- 17 Aug 11:31 am Tag. 1 - 100' above trees, flapping
to SE sq. tail.
- 7 Sept 3:25 pm $\frac{1}{4}$ clear breezy 1 circling high NW
- 10 Sept 1:38 pm 1 circling high W to E.
red tail, details underlining
- 13 Sept 2:56 pm Tag = 2 circling rather
high W to NE.
- 2 Oct 11:35 am 1 circling overhead.
- 5 Nov 12:21 pm clear 1 low sailing to WSW.
- 2 Dec 2:10 pm clear clear, 1 circling off to W.
- 12 Dec 9:44 am clear, calm 1 from W. gliding
& alighted in top up street atlas cedar.
facing NE - its making down (at side)
9:46 flew low to E. This is a first in
a while - dull red tail - newer,
light breast.
- 20 Dec 11:58 am clear & windy 1 circling
fairly low overhead, seemingly paying
no attention to Fox Sq. rearing above
ledge. then to NW.
- 24 Jan 92 1:03 looked up to see 1 in top
up at cedar, peering about. 1:08 flew
down & 5 and laboriously flapped
& sailed until after 30 circles gained
altitude & flew - sailed to WNW. calm,
almost a uniform haze across.
- 5 Feb 10:44 am 1 rather low, in long
shallow glide from NE to W then
circled & flapped off to NW. Red tail
- 24 Feb 4:08 pm clear hot, 1 circling high W to S.
- 3 Mar sunny 1:34 pm 1 circling high to NW
- 7 Nov 3:39 pm clear 1 gliding low NE to SW

Main body of handwritten text, consisting of multiple lines of cursive script.

1992-93

Buteo jam.

19 Mar.

overcast, 4:16 pm dead calm - 1 circling high to W - N to S; more flapping than normal

29 Oct overcast after rain - 1:19 1 from W low turned to N after flaps.

3 Nov 10:35 clear, N wind, 1 over tops of trees, sailing from S - landed on top of pines NW. saw red-tail.

9 Nov SEF CROW ACCT 3:37 - 1(?)

gliding low - NE to SW - very dark/sky.

9 Feb 93 light rain, 12:40 1 circling-flapping rather low W to NW.

13 Feb 1:15 pm clear, calm. 1 soaring rather low to W dull dark red tail & missing 1 tail feather, 1st, 2nd from the lateral.

1 May 4:12 cirrus overcast, hot, calm 1 circling rather high NW to E. tail spread

25 May sun - much breeze - 1 ad circling fairly low to W to NW.

21 Dec 93 1:12 pm clear cold. 1 circling rather high to W. red tail.

23 May 94 3:54 pm clear, warm. first a quick shadow then rather low a gliding 1 from SE to NW where it circled higher - higher with bright red tail & white underwing

7 Oct 5:22 pm clear warm 1 sailing SW over trees.

29 Dec 11:19 am clear 1 circling to NW, up & up!

12:59 pm 1 to W, rather low S to NW, circling

1 Sept 1995 1:45 pm clear breeze 1 circling NW to N. bright red tail.

18 Nov 1 pm fog & hazy sun. 1 circling rather low (to W) and higher to N. Red tail.

19 Nov 3:11 pm sun & cirrus 1 very high circling to W. down to NW.

1875

Received of Mr. J. H. ...

for ...

...

...

...

Christman
1997

13

Buteo jama.

4 Jan.

11:30 high haze 1 high to NW, red-t.

5 March 10:40 am variable clouds. 1
circling high to W to NW. dark.

20 Mar 5:37 pm complete cloud cover. 1 (sp.?)
- huge in top up st. cedar, flew (5 stoop)
to NW. no details

24 Mar 1:15 ± pm partial clouds. 2 NW to SE
well over tree level near 1 made several
diving passes at farmer. no calls. courting?

1 Apr 1:51 pm clear windy. 1 circling rather high
W & to SE buffeted by wind. red-tail!

1 Oct 12:45 pm variable clouds 1 red-tail
soaring in circles, high, W to NW.

24 Oct 1:03 clear/cirrus, some wind. 1 very high
W to S

25 Oct. 11:13 am clear, N wind. 1 R-t. to W.

flapping against wind, making S to N.
15 Dec 12:14 am few cirrus/clear, calm 1 soaring
high to W.

17 Dec 12:16 pm overcast 1 soaring to W ^{then} NW
3 Jan 98 clouds & blue, breezy 1 circling low ^W

14 Mar 3:07 pm clear calm 2 circled
swooped well over tree tops NW to SE
well defined red tail!

15 Mar. 11:50 am lots of cirrus 1 circling low to W ^{rather}

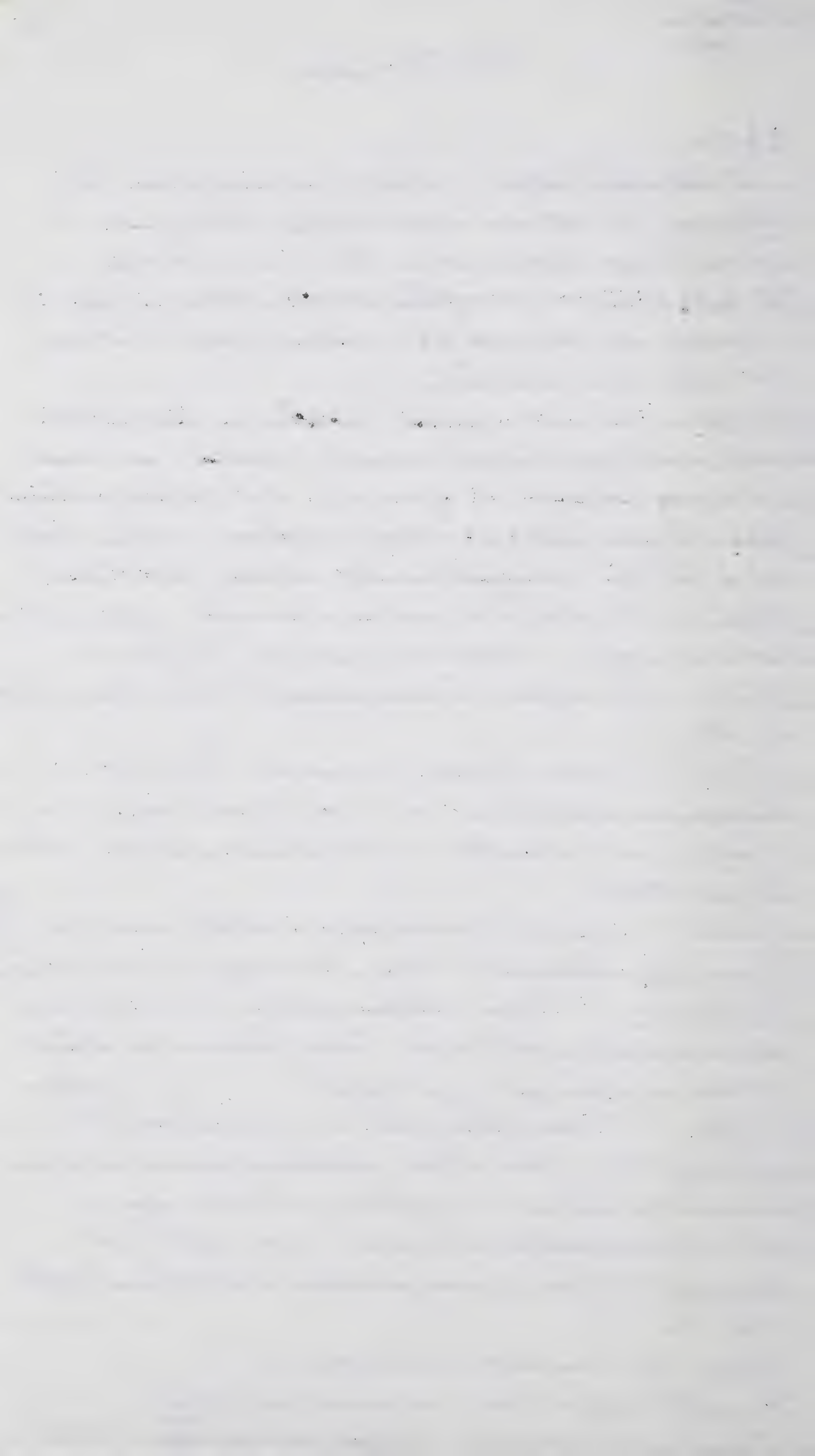
21 May 12:23 pm clear, breezy fair w. cumulus
2 circling to W - higher as moving N,
also swooping dives - courting?

15 June 1:29 pm clear, warm - 2 circling high
W to N.

3 Aug 11:07 am clear 1 circling to W.

12 Sept 12: pm clear 1 circling high NW to E.

30 Sept 11:28 overcast, 3 Buteos circling ^{high} W to NW



Christman
98

14

Buteo jam.

21 Oct.

12:48 pm clear, 1 circling to W & slowly to N, grad red-tail moderate height.

14 Nov 2:13 pm clear, 1 circling/soaring. S to N, getting higher to far NW.

15 Nov 12:01 pm overcast. 1 circling rather high W to E - overhead - red tail.

24 Nov 9:28 am clear, 1 soaring high, W to N

16 Jan 2000 2:34 pm few cirrus, sunny. 1 on $\frac{1}{2}$ " heading branch of up st. cedar, S. side, no larger branches near, 100' + up. Then flew-glide & landed on branch of cypress, 125 yds to S.

2:39 on larger upright branch peering about - no other bird activity. 2:46 still there -

very exposed - obvious. 2:49 flew down - disappeared

31 Jan. 9:54 am light rain. 1 sailing in slowly from W to top of up st. cedar for 10 min. +.

17 Feb 12:28 pm clear & few cumulus. 1 in a long glide from W & landed 3' from top of up st. cedar. 12:34 flew-glide to top of redwood to S, 200 yds.

19 Feb 1:26 pm cirrus cover. 1 soaring-circling fairly low to W.

25 Feb overcast, 12:34 pm 1 circling higher ^{to} W.

18 Mar clear, 1:59 pm 1 sailing in low over house to SW, then circling high & higher to W. a dark bird.

Christman
1988-89

Falco sparverius

1-

26 May, del Norte St., Berkeley

7:28 pm hands of high clouds, bright sun,
one from NW landed in top of up st. cedar
for a minute plus then flew N. / back
lit could not see color. Sure of id.

4 Oct. a ♂ in bright plumage into top of
up st. cedar at 9:47 am - flew NW at 9:50
am. from the SW.

21 Jan 10:13 am ad ♂ in top of up st cedar.

a long glide to SW getting fairly low.

28 Jan 4:10 pm a small falcon - this sp.? on top of
utility pole at circle, short tail, no detail, size ob

4:15 pm flew SE; slow direct flight

Christman
1989

Falco peregrinus

12

6 Feb., ~~del Norte St., Berkeley, Alameda Co., CA~~
Talked to Davey Bell - Bob Jones on
MVZ on phone. Since October an
imm. ♀ (?) has been about the
campanile on campus. It's been
after pigeons on campus. (also flickers
& amazingly a herring Gull!)
This bird could easily appear here.

Christman
89-90

2

Unid. Falco or accipiter

12 Dec., all Norte St, Berkeley, Alameda Co, CA

12:32 pm light breeze, clear and
accipiter circling high overhead
typical: flap-flap-saar. sp.?

29 Dec. 2:18 pm one high circling, F-F-S
to W.

8 Jan. 1:34 pm cloudy one large accip. circling
high with red-tail circling below it

10 Jan 9:54 am cloudy & windy one circling
& F-F-S to W - medium height to high

no bird activity close in. 1 pm = no wind:

2 very high off to W. circling

30 Jan 2:55 small - rabin + top of up st

cedar 1 rabin & doves (13) paid no attention

- flew NW gained altitude - no flap-flap
saar. tail relatively short. sharp shinned
? light breast.

3 Feb finches & robins all flew off then out
of W. at medium height 250' ± was a
hawk gliding in slight S. breeze to NE
not typical flap-flap-saar but did
flap a little long tapering tail, wing
not in soaring position. Probably
a Falco of some sort, but could be
a small cooper. ? tail not spread.

10:11 no bird activity.

28 Apr '90 1 accip. high overhead circling

23 May 12:33 pm mainly clear breezy. accip.
circling high off to NW.

18 Oct 11:57 am cloudy - 3 small birds
flew fast, low between trees, disapp-
eared quickly. then suddenly from NW
low between NW elm & Pittos an accipiter
(each, 10" ±) long narrow tail, low over
house to SE.

Christman
1989

Misc. falconiformes

3

18 Nov. Del Norte St., Berkeley, Alameda Co
4:30 pm Small ^{hawk} accipiter, no facial marks
dark stripes upper chest, red bar on flank,
dark top of head, etc. has a small bird
grasping neck area, flaccidly plucking, head
is balanced, but has to compensate with
wing-tail movements - tops of trees
missing, light not good. Feet bushy
on it 25 - stripes chin to flank -
looks dark brown and falcate eyes

4:51 Spintery Falcon, same after sunset
preg is small Kinglet + size of Titmouse
no falcate mark before eye, white chin
robust thru chest - verub jay or even
steller size Flew off low to NW at
4:55 pm. long tapered wings

Merlin ♀ last hute before it flew
shuck & its of immediately
after trap flight.

28 Feb 4 pm to NW broad circles of a large
very dark Buteo no pattern, to N. high.

2 Mar 3:41 pm light rain House finches feeding
- disappeared. Doves (6+) in w. elm. An Accipiter
flew into top of up stairs from SW & disappeared
up. just sitting there - to dark for marking, etc
larger than jay 3:43 flew down & to NW.

3:45 pm 6 doves huddled up in w. elm, 8' within
canopy of bare branches. No other birds.

3:47 House finch (♂) at D-4. a few call
notes.

11 Mar 90 3:06 pm S to N, 100 yds W 1 medium
sized accipiter 150' up very dark bird. FFS

7 Dec 1990 NW to E circling, rather small & rather low
accipiter

Christman
1988

Falco

1

14 Apr del Norte St, Berkeley, Alameda Co., Calif

4:45-4:58 pm small dark falcon swooped
up into cedar, up street. back brown
above, broad shoulders, head flat & sq-
uar. put scope on it falcon facial stripe
(brown) & reddish on flanks (facing away)
while window open a "hi, hi, hi" call
= F. columbianus flew off to SW.

it was $\frac{3}{4}$ away; tail seemed short,
it preened upper breast a bit but was
actively peering about looking down as
much as around.

19 Sept from W at 9:21 am a smaller falcon
well over thus seemed larger than a
kestrel fairly dark.

10 Mar 91 suddenly at 3:04 saw a bird chasing
a goldfinch - in release near W. of elms
to then it flew over elms to E 40' from me
lighting not good. looked like a falcon
of some sort - wings & tapered tail
& chasing in air. It was under 14" long, probably
12 \pm " 18th have been thinking & remembering
this one - the lighting & angle not good
possibly just a A. cooperii at strange
angle - at best either way - hypothetical

19 Mar 12:19 pm clouds. bunch of goldfinches flew
S. Suddenly over NW elm was a falcon to NW
then N - long thin wings, no saaring & fast
and smallish - jay length plus. quick wing
beats. a miss.

8 May 91 12:02 clear & windy - 15E to NW, 58
over trees, sharp wings, 12" +, gliding & flop-
ping; buffeted by wind white flank. tail
didn't spread much.

Christman

2

Falco sp?

Northridge St., Berkeley, Alameda Co., Calif
smallish accipiter, 9:18 - 9:24 ^{a.m.} top of up
st. cedar light rain. lighting very poor.
it flew at 3 doves out of w. below
its level - no save!

3 Jan 1992 8:49 a.m. clear calm 1 in top
up st cedar with a ? warbler?

Page 101

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are in agreement with the experimental facts. The second part of the paper is devoted to a discussion of the application of the theory of the structure of the atom to the study of the properties of matter. It is shown that the theory of the structure of the atom can be used to explain the properties of matter, and that the properties of matter can be used to test the theory of the structure of the atom.

Linstruan
1989

unid. falco or accipiter

12 Feb., del Norte st., Berkeley, Alameda Co., CA
9:50 am smaller, overhead, quick look
sawed, then brief flap high

21 Feb 9:48 am large dark accip. long slow
sail N to S 100+ yds. w. one flap. no id.

28 Feb 2:55 pm warm clear small brown
accipiter - high to NW, flap-flap-saw.

24 Apr 9:25 am light rain, large - long tail
gliding in circles 200 yds to NW high.

6 Oct 9:18 am out of NW fairly high a large
accipiter flap-flap-long saw, to E;
probably cooper hawk.

7 Oct 10:38 am clear, one prob. cooper F-F-
long saw out of WNW - height below
top of cedars to SE larger bird - dark-
juv. ? No other birds about

15 Nov 11:12 am well over trees one in long
descending the slow sail-glide with only
several flaps from S to N. cooper (?) by size.

18 Nov 10:03 am noticed a bird - a bit
larger than robin near top of W elm
- but its tail was wagging laterally
uncharacteristic of my local bird. Put
glasses on it - an accipiter, horizontal
red haired breast, black crown. On
1/4" branch. The tail did not appear
especially long. It then flew vertically
up into near cedar, on 2" branch, then
again higher out of sight. Doves flew
off 15 minutes ago - only bird now
evident is ♂ House finch in very top
of NW elm - obvious to hawk 75-90' away
I.D. = size & shortness of tail probably sharp
shinned hawk full ad, see Journal

Christman
1988

Accipiter striatus

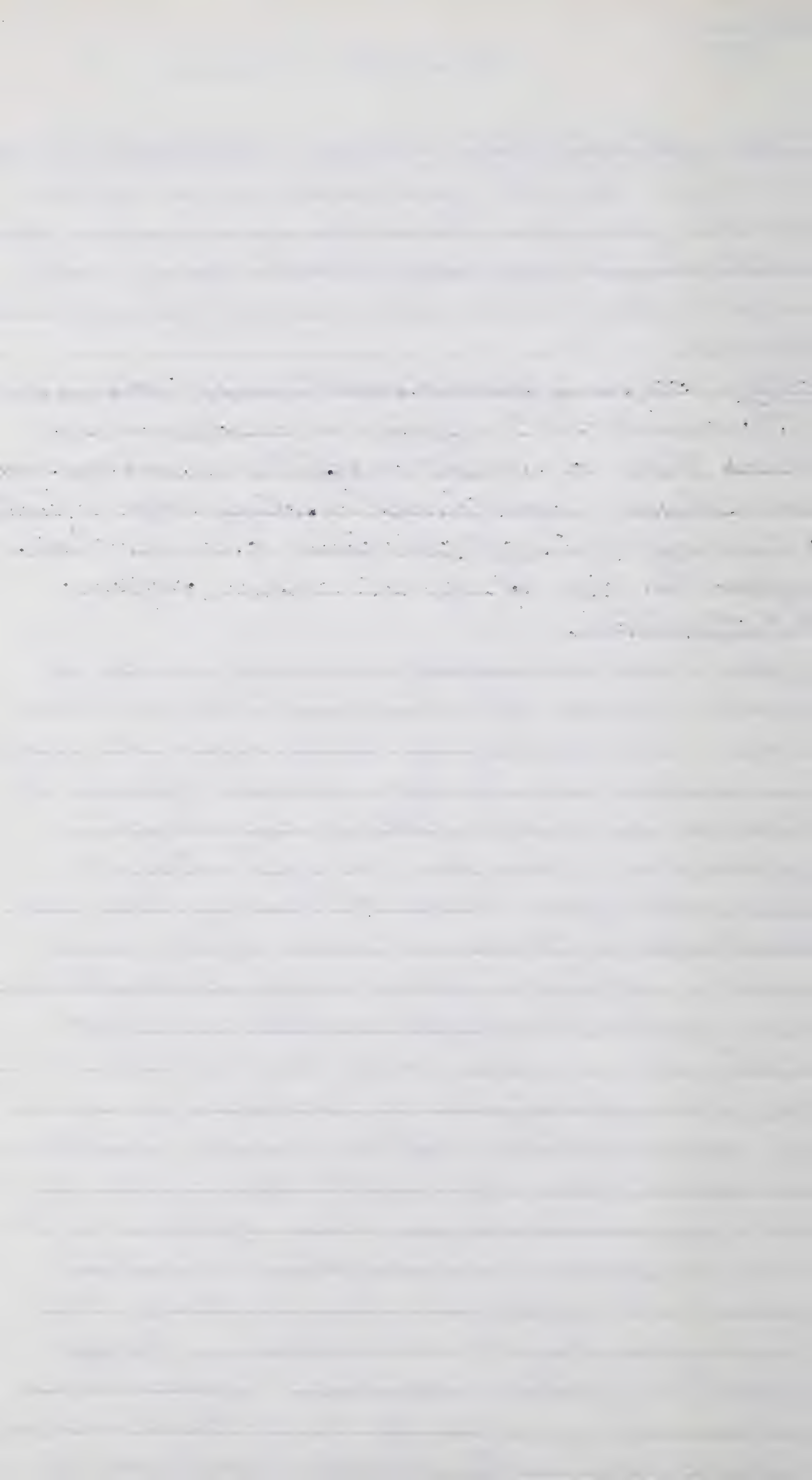
3

17 Jan old Route 99, Berkeley, Alameda Co., Cal
4:16 pm slightly questionable id. in up st
cedar - very top, back this way reddish flouk,
white throat & leg ruffs, black crown, rabin
size +; flew to SW, a few beats & long glide
down.

10 Mar 1:03 pm a flock of small birds (goldfinches
- ?) - about 20 ± flying in circles about
elms. Then a small accipiter circling low
over elms - continued circling high & higher
& then off to E. all this time a band-tailed
pigeon in top of up st. cedar paying
no attention.

17 Mar 1 pm an adult (red eyes) in top of
up st cedar. It flew low to SE below
me - the amazing thing was its flight
it closed its wings several times &
looked so very like a rabin as it
swooped low for 100 yds⁺ - direct.
was watching in scope & binocs. had to
look again to see it was a s-s. and
not a rabin. A good close look with scope.
5 pm noticed a large accipiter on top of
utility pole at circle was there at least 15 min.
the diameter of pole = forehead to end
of secondaries - ad. bl crown, red hairs
on chest. then N from E, then S, then W.
no preening seen then glided to SE
& a mourning dove flew. a rabin
took its place on top of pole. din
in a quantity - it seemed larger
than bird seen earlier! Same bird
& same size overlap but this bird was
large. after it flew lower to bushes, HF
& chibadee came to feed. none seen

when Hawk is seen



1989-90

Accipiter Striatus

25 Mar, del Norte St. Berkeley, Alameda Co., CA
 10:53 bright, scattered cumuli. from
 NW an adult into top of up st. cedar looked
 about for 2 minutes then flew up 75' to
 S & glided off to SSE. No active birds
 except a ♀ dove on land which is
 hunched down and very still for minutes
 after hawk flew.

28 Mar. was watching a rabin in elm this
 am and it dawned on me that the
 rabin just quietly sitting in a bare
 elm — is vaguely like a "sharpie"
 — black head, red throat & dull brown
 back — a hairless "rabin". Rabin
 is more abundant summer (or winter)
 bird in places.

14 Apr 1:50 pm fog, what appeared to be an
 ad. this sp. in top of up st. cedar facing W.
 watched for 3 min then it dove down sharp-
 ly to W. Dark, short tail, long tibio-tarsus
 jay size except for length of tail — same bird

30 June 9:03 am overcast from SE fixed wing
 glide, as a dove, to top of up st. cedar. a
 hummingbird chasing it & made one pass
 at it after it landed. brown tail with bars
 under rabin size 9:05 am dove to W &
 could see "long tail". No local bird
 activity or did I hear any alarm note.

27 Mar. 2:45 pm fog at street level & all
 gold finches suddenly flew 50+ to SW
 — I looked up to see a light brown,
 short tail — etc sail past 60'+ feet up
 over oak — a good quick look — size 1.0.

21 June '90 9:21 am 1 circling over trees in fog
 small, feet dangling!

Handwritten text, likely a letter or journal entry, covering the majority of the page. The text is written in cursive and is mostly illegible due to blurring.

1990-91

Accipiter striatus

17 Feb 91 del Norte St., Berkeley, Alameda Co., CA

11:36 am Out of W to SE one small chick!
Flapping - soaring. Pattern different
from Cooper's in that flaps are more
; quicker & deeper. Well above trees, a
breeze & it made tighter circles. No
other birds about, closer to 14"

22 Feb 1:56 pm sunny a sudden rush of
brisk-tits into oak from N followed by
an accipiter - smaller $13 \pm$ ", adult by
color swept up (from N) into high portion
of mancedas. a ♀? no calls.

2 Mar 10:33 am from N to top up in cedar
to land in terminal glide. about robin size
dark head, top of tree moving in wind -
no rain, then a slow glide down to S
to behind trees to W. a wide tail, then not
real long. - ? a male - adult. Size again
: perhaps 2" longer than robin - not a big
cooper. I couldn't see much of tail, only body
5 Mar 2:55 pm looked up & there was
a dark flash into the upper section of
NW sky & 7-10 goldfinches flew S. Then
the broad wing flapping a smaller
accipit. flew thru elm (W + up) circled
flapping to E & disappeared. 30 sec.
later it was circling over area -
gaining height & moving NW until
rather high. Wings seemed shorter than
cooper's. dark gray above, more
& deeper flaps in F-F-S. white circling
tail very fanned & shorter than C.F.

29 Mar 12:41 pm clear 1 rising vertically then
levelled out & flew E - in F-F-S.

Christman
1991

Accipiter striatus

6

3 Apr del Norte St., Berkeley, Alameda Co., Calif
12 noon suddenly 1 in top up st cedar
about 14" length (not bulk) of band tail
clearly an adult the tail not as long
as a bigaepus. tentatively or sharpie
Flew in a long glide to SW, leaving
as it went.

27 May 3:45 both sp. jays have been calling
incessantly from N & down. Stellar J. in
thick Piths. When I went out side a
small accipiter overhead, over tree heights
to S. it was small long tail and tan
with streaks — a juv. ? — F-F-S to S.
drove off on Marin below circle it was
circling high. I conjecture it was perched
where I's saw & raised a ruckus.

28 May 11:01 1 jay sized accipit. in top up st
cedar — dark cap. disappeared! definitely small.

4 Sept 12:18 pm clear-calm, 1 fairly high
overhead outside E to W, F-F-S, & smallish
+ 12" tannish, terminal white band to tail.

22 Oct 1:49 pm overcast a smallish 1 to
top up st cedar for 30 sec. then glided N
— not much larger than a jay.
No birds about!

31 Oct 8:10 robins & doves in NW elm flew fast
& low to S. looked up & 1 ad. 12-14" long
relative short tail — N side of NW elm 15'
from top. Very dark gray brown back
parched very vertical. 8:13 flew SW after
2 stellers flew in center of NW elm

29 Nov 3:11 pm clear, wind 1 smallish 12-14" flared
20' over oak in front of me in a small
arc, then low to W.

Christman

7

1991-92 *Accipiter striatus*

2a Nov.

3:46 pm clear & windy a pair of doves & robins
then a mid-sized Accip. SW to NW fairly
high & obviously fighting the wind.

discussed here because nearness of time

17 Dec 3:57 pm was raining, overcast Pine
diana, actually we been expecting a
dove feeding and landing - all (10+) fly
quite suddenly; then a dashing blur from
S past window & a loud thump on side
of house. Then an adult sharp to
ledge 7' from me - eye to eye for 2
seconds. Fully adult 12+ " rather short
neck, brown above. It flew to up st
cedar on top & flew at 4 pm. This is the
closest we been to a free, alive
accipiter! Four dove tail feathers
next to house - a near miss!

18 Dec 12:49 a smallish accipit. in top of
up st cedar for 1 min. + then flew down
& WNW. Short neck. Game bird as above
No bird activity & no doves in trees.

20 Dec clear calm 1:51 accipit. circling
higher & higher WNW. tail shorter &
broader than usual, wing beats are
faster and shallower than usual
i.e. 700 per. F-F-S same indication
as above — ? 2:30 again W to E high

28 Dec 9:40 am after a brief shower. Is small
ish hawk in top of up st cedar, peering
about for 1+ minutes then flew N. was
met, crows black, H. finches & golden-crowns
in feeding soon after

12 Feb 10:19 am. ~~at~~ called & returned to house

Christman

8

1992-93 *Accipiter striatus*

9 Jan

3:47 3 doves flying erratically then 1 small accip. from W in F-F-S then a large stoop to S. well over tree height. at 9:45 down Salano ave. a small 1. to top of araucaria tree in residential area.

2 Mar 2:20 pm small 1 over house F-F-S to the utility pole, 1 min. then fast to S with a rabin in top up st. cedar - 50 yds to N

9 Mar 1 circling in tree tops, 50' + above trees at 3 pm.

31 Mar 5 pm 1 N to S 50' over trees seems big for sp. as in between.

15 July 10:04 small 1 high circling, F-F-S off to NW. Rabin top up st cedar

3 Nov clear E wind, 9:47 am no bird activity. a smallish accipit. from W over tree tops to near cedar. Sp.?

1 Feb 93 10:16 clear sp? medium, adult circling, F-F-S to W, to S. rather high. 10:31 same? lower, N to S, straight F-F-S no birds about this a.m. except 1 dove in middle of NW elm. 2:57 first a low quick flock of 20 ± waxwings over elms from N, followed by 30 robins, 5 sec a hawk swooped from N to SW ~~the~~ sailing fast.

13 Feb 2:28 pm clear 1 top up st cedar, at cedar - a large ♀?

14 Mar 11:01 scattered cumuli of rain at night. a sudden flight of 40 ± goldfinches to S, low & fast. then hawk from N high over trees, sailed by to S fast, medium size.

100

10

1. The first thing I noticed when I stepped
 out of the plane was the cold. It was a
 sharp contrast to the warm, humid air of
 the tropics. The wind was biting, and the
 snow was falling in soft, silent drifts.
 I had heard that the weather was bad, but
 I didn't realize it would be this cold.
 The snow was a beautiful sight, but it
 was also a challenge. I had to be careful
 not to slip. The ground was so slippery.
 I had to take small steps and watch my
 footing. It was a new experience for me.
 I had never before. The snow was a
 beautiful sight, but it was also a challenge.
 I had to be careful not to slip. The ground
 was so slippery. I had to take small steps
 and watch my footing. It was a new
 experience for me. I had never before.

The first of these is the fact that the
 system is not a simple one. It is a
 complex one, and it is not possible to
 describe it in a few words. It is a
 system of many parts, and it is not
 possible to describe it in a few words.

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

...the ...

8 Apr.

1 high at 3:02 pm light rain, 1 circling
W to N. tail fanned.

20 Mar 10:05 am lite rain. id? a med-
small accip. top of utility pole circle

25 Oct + 96 9:30 am clear 6 doves on line
next door to N. - suddenly flew S. in a
panic. Then a smallish accipiter circl-
ing overhead - above tree tops. It was
fall bodied light ruffed chest. Square tail.

22 Dec 2 pm clouds at Hopkins/Alameda
2 circling lare (50' +), smallish, real
interactions with each other

23 Dec 11 am almost clear. 1 circling to SW.

28 Jan. 1997 12:26 pm overcast. a
small 1 on top of st. cedar for
several minutes, then a steep
stoop to S (behind my oak) with 2 or
3 wing beats. No local bird active.

Christman
1988-89

Accipiter cooperii

5.

21 Oct, del Norte St., Berkeley, Alameda Co., CA
can't - broad winged & ~~tail~~ tail flashed.
35+ yds SE is a lone house finch
in top of NW elm. This finch was not
obviously perturbed by the presence
of this hawk! I couldn't see any
color on hawk - silhouettes; not hidden!

23 Oct. 4:15 pm one circling low near
Safeway on Solano ave. a large flock
of pigeons circling higher, a block away.

31 Oct 11:16 am one circling high to NW
going SE.; no flaps; long tail, brownish.

4 Nov 10:15 am one from E to W, flap-flap
- soar 100' + over area - not circling.

off to W. 3:10 pm One circling '25' up
in F-F-S manner, brown, to E.

7 Nov 10:22 am. one high in F-F-S in
circles to NE - long tail; then a
lazy soar off to SW. One robin in top
of Vireo & daves feeding here.

21 Nov 3:29 pm overcast. daves feeding -
suddenly all took off, exploded in every
direction, look up - 5+ seconds - a
brown cooper's sailed past, going away
N of oak & Pittos - below my level,
wings spread to N - well below my level
- it had made a pass at daves - on
roof - sleepily down? so very quick.

First time this has happened. Will
he learn to come back? what will
the daves do? no feathers falling

18 Dec 11:15 am hazy, dull clear one (sp?) to NE
circling high in typical flap-flap - soar

28 Jan 4:10 pm ? sp high accipiter circling high to NW

Christman
1984

Accipiter cooperi

6

29 Jan., del Norte st., Berkeley, Alameda Co., Caly
1 pm one circling 100' up to S. main

30 Jan see CEDAR GLAZING acct.
it was a brown breast stripe individual
- didn't see its pursuit. 11:09 am

2 Feb 5 FE ROBIN ACT. it was 150-200' up.

& showed no interest in robins. 1:20 pm

10 Feb sp. ? one very high to W, in a straight
line. Also a flock of cedar waxwings
(15 \pm) which got very compact & circled
in rather tight circles - higher & higher.

1:40 pm one in circles 100' above trees,
flap-flap - saw from W to E overhead.

19 Feb 10:39 am raven in top of up st. cedar,
suddenly flew up & E; then a large accipiter
came sailing in to same spot in tree -
from NW at same height as top. gray wings
& back, red horizontal stripes on breast & black
on top of head; perched at angle not upright
flew to NW in one minute.

1 Mar 1:58 pm cloudy one in top of up st cedar
& 2 robins in top of NW elm. The brown hawk
flew E (& over the elm) - immediately the
2 robins flew.

24 Mar 12:30 pm 2 high in broad circles
gliding - one dove on other twice.

5 Apr 10:30 am a strange observation: on
Berkeley Horticultural Nursery. Out of NE
came a ♀ house finch 100' up, followed
by a medium juv. Cooper's H. - behind 10' & below
finch 10-15'. The hawk was following not
chasing; finch turned NW, hawk followed.
all watched for 125 yds. Was the hawk
waiting for finch to tire; hawk flying leisurely.

Quistman
1989

Accipiter cooperii

7

9 Apr. Del Norte St., Berkeley, Alameda Co., Calif.
8:10 am walked out on front porch -
a larger than dove sized brown bird
flew from under canopy of oak (N side)
down thru trunks low under Pittos to
SW. A few minutes later it flew up to S.
side of near cedar and landed on 1/2" branch
20' up & 15' from trunk with needle clusters
over it. after 2 minutes flew down again
with tail spread wide under oak to within
a foot or so of street, turned & flew up
& back - under Pittos. I heard no call
from it or anything else. Immature
plumage - larger than dove, brown
back, yellow legs.

12 Apr. id. ? 8:55 am fog, smallish dark
accipiter in very top of up st. cedar for
2-3 min. then steep dive down to NW.
larger than robin & dark, long tibio-
tarsus. age sex ? "turb" calls from
robins after it dove. SEE 14 Apr striatus

21 Apr. sp. ? looked up to see a large bird
fly from top of up st. cedar. it undulated
flight, again like a robin, then a flat
glide to S. Second time for this.

11 July 10:12 am one (brown) from N into
top of up st. cedar for 30 sec. then slow
flap & glide to S. (not like a robin).
no local bird activity or calls.

20 July 10:03 am one suddenly flew up
almost vertically just NW of up st. cedar
& curved off to NW - gaining height &
disappeared higher in that direction.
robin size plus & brown.

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There is a certain amount of...
...the...
...the...
...the...

[Faint, illegible handwriting at the bottom of the page, likely bleed-through from the reverse side.]

Christman
1969

Accipiter cooperii

8

23 July, Del Norte St., Berkeley, Alameda Co., CA
2 pm scattered fog, one (sp?) large
flap-flap-scar hawk to NW high
believe brown plumage, this sp.

1 Aug 3:54 - 3:59 pm a large gray-brown
one 3' from top of up st cedar, 18" from
vertical trunk on horizontal limb. No
preening; same feathers of fluff ruffled
facing NW - the flew down to NW.

22 Aug 6:59 pm one flew through oak
& landed halfway up in near cedar
8' from trunk on 7 ± " branch saw me
& flew S. a large bird; appeared adult.

9 Sept 9:54 am fog, sat down at desk & looked
up & saw the broad wings & spread barred
tail of this sp. - gray-brown - dash
down between my observation window
from S. & it disappeared behind Pittos 40'
away. It seemed to raise up as if to
land. At 10:04 am it flew from area
behind Pittos. down over street then
shot up vertically into elm behind
S. portion of NW elm in area of large
trunks & disappeared behind foliage.
At this time 3 house finches flew from
top of NW elm high & to SW. 9:11 am a
♂ house finch on line 7' from house
for 20 sec then flew up & E. At 9:17 a
dove landed on roof over me. One
minute later flew high & off to W. 9:23
still have not seen hawk again. Except
far above No bird activity. 10:39 am Steller
on ledge calling - turkeys & chickadees are
in. 2 doves on line at circle.

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Handwritten text in the upper right margin.

Handwritten text in the upper section of the page, possibly a paragraph or list.

Main body of handwritten text, consisting of multiple lines of cursive script.

Christman
1989

Accipiter cooperi

9

14 Sept del Norte St., Berkeley, Alameda Co., CA
9:08 am a large bird flew vertically to
top of utility pole at circle, 100+ yds W NW.
its silhouetted, but large dark of this sp.
in fog. Absolutely no local bird activity
except a ♀ Anna Hummer until 9:26
when a jay called to S. 9:30 am 2 mocking-
birds flying high to W from N. govt to
circle & wiered off & down to NW - did
they see hawk? Then 9:32 5 or 6 house
finches to Pittos & 1 to top of NW elm. In 2
minutes they came in to feed, plus one
tawhee & 4+ house. 9:36 all flew off
- extremely flighty. 9:39 am hawk still
on top of pole - fog not cleared. again
no bird activity except the scrub jay
called twice. Hawk facing W; a little preening
9:43 hawk now facing N. a mockingbird flew
from NE to top of an up st. elm. and a Steller
calling to N; and several finches in Pittos. At
a big cooper - maybe an adult. 9:51 finches
in to feed at landing & feeder - some high being
very flighty! along with 2 tawhees -
several wild flights to Pittos & back in 30+
sec. all of this has to be in clear view of
hawk - 9:54 hawk now facing S. 10:02 same
but less bird activity. Hawk is very obvious
on the pole. 10:03 am it flew down to
the NW.

Was this adult resting after its first meal
of the day? prominent perch & obvious!
Did it take its breakfast in neighborhood?
Practically no bird activity for 1/2 hr.
also - pole at circle - it was not bothered by
lots of car traffic.

Main body of handwritten text, consisting of multiple lines of cursive script.

Wishman
1989

Accipiter cooperi

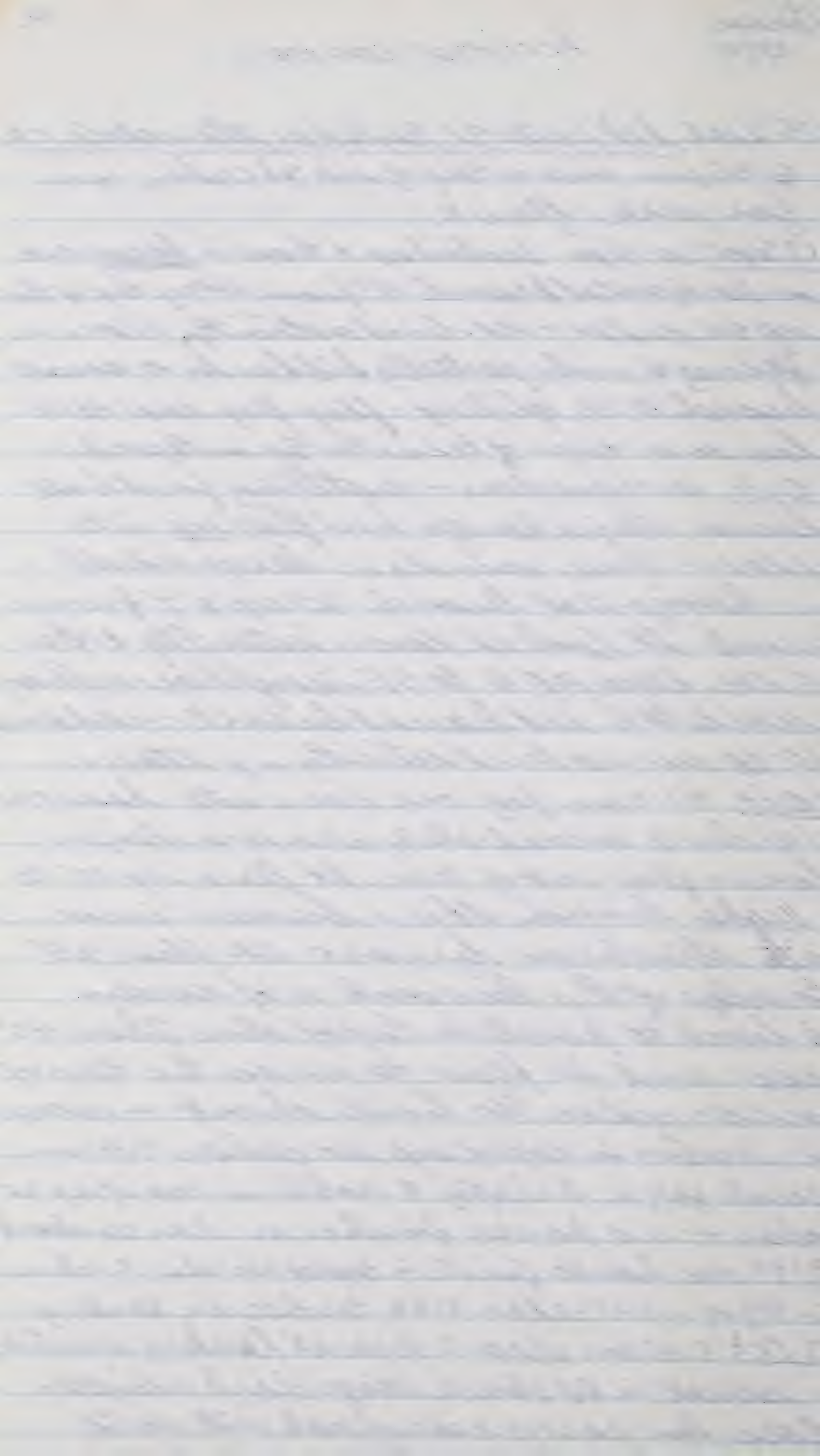
10

15 Sept., del Norte St., Berkeley, Alameda Co., CA
6:35 pm one in top of up st cedar seen
for 10 sec. flew N.

17 Sept 10:31 pm looked up & there is large c. h.
on horizontal branch 18' from very top of the
up st. cedar - no bird activity, close in.
facing W. only partially hidden by a small
branch. 10:38 gliding - flap-flap saw to NE
low over tops of trees. Fox sp. antp perch. -

8 Oct 10:19 am deer - watching football
down stairs, large bird flew up into
cedar - thru window large adult -
on horizontal branch 30' up & 7' from
trunk. It looked down intently & after
15 sec. flew up & to SE. Neighbors making
noise to N. red haired bear. - red deer
10:30 am no bird activity up stairs.

11 Oct 9:13 am fog one dove into heart of
NW elm & immediately about a dozen
doves flew out of tree. It flew up 10' to
a higher branch. It is a breasted imm.
with streaks on breast. It flew 25'
to edge of the live oak N of NW elm.
& back to perch in top of elm. Then 45
sec. and it flew to near the top of
near cedar. No birds about - except
a robin in top of up st. cedar. 9:41 am
scrub jay in briefly & robin in top of up st
cedar - no house finches or doves about
9:47 one house finch in top of NW elm. 2 robins
in top of up st cedar. 9:48 towhee on landing.
17 Oct 8:40 am clear 2 doves at landing each's
& several in NW elm. a large dark accipiter
dove low pass W side of oak into mid



Christman
1989

Accipiter cooperii

11

17 Oct., del Norte St. Berkeley, Alameda Co., CA
section of W elm & dunes flew off -
flying high to W. saw head, etc. in
30 sec it flew with head, heavy
wings to N. all this time a robin in
top of W elm - till 9:45 am. a scrub J.
flew low from N to S. No other bird
activity.

22 Oct 9:24 am one large brown
accipiter high & far off to W circling
in typical flap-flap-saw the long
tail to N

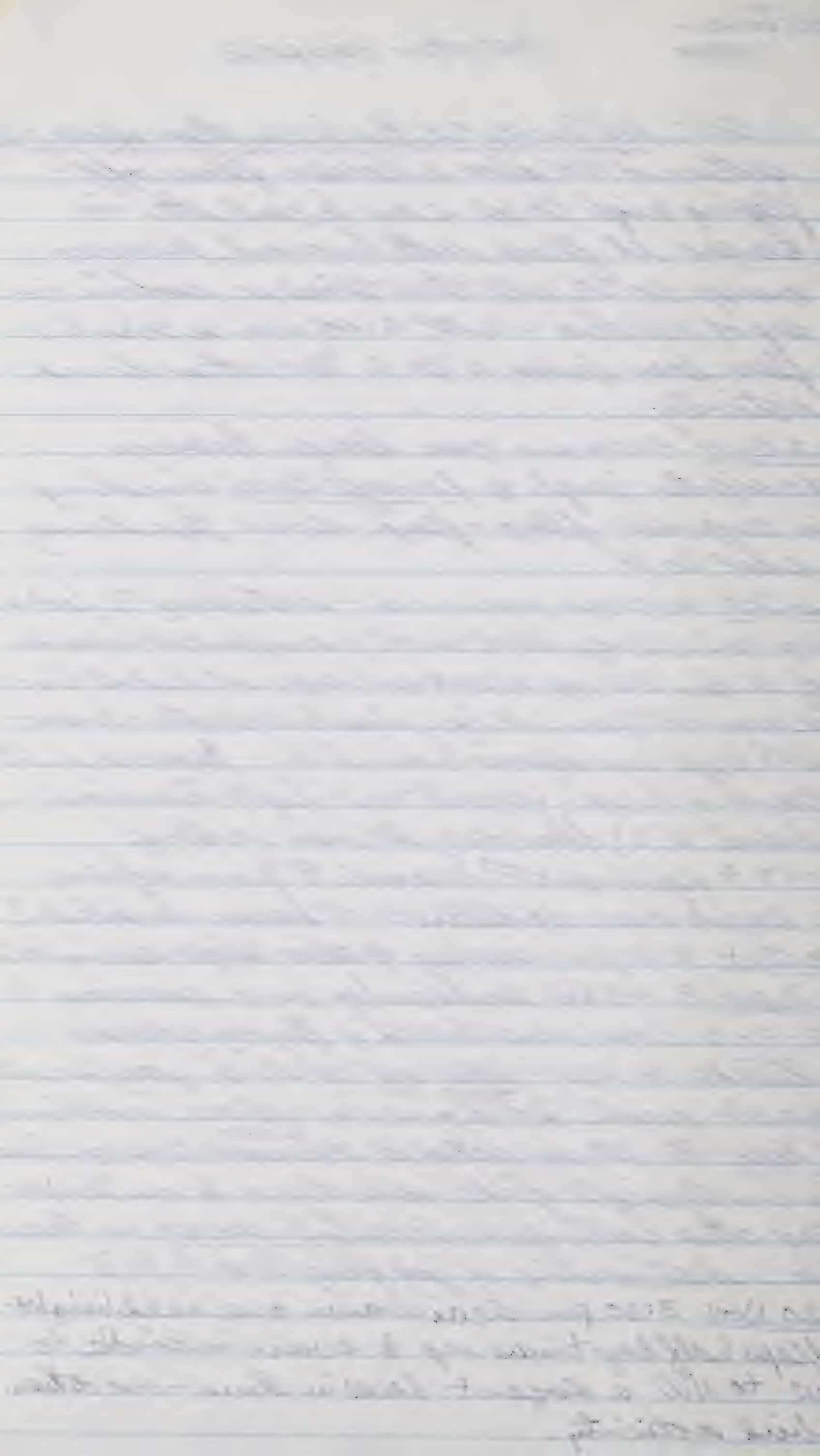
26 Oct 4:24 pm overcast - watching TV, looked
up to be large bird on a horizontal branch
of W elm 50' up. Went ant side it didn't fly -
dunes 35' from it for about 1 minute - brown
but light was again behind it - feathered about
turning head - flipped tail (light terminal
band $\frac{1}{4}$ " \pm) flew SW. It was hunting!

4:53 4 dunes on branch 8' from where
C. Hawk was. up stairs 5:15 dunes skiddish?

30 Oct 3:31 pm sunny medium height soaring to S.

3 Nov 9:43 am suddenly one soaring &
F-F-5 low over head & flying gained
altitude to NW - later off to W. a jay (scrub)
"quab-quab." ^{two} dunes in fms, motionless
4 Nov. 10:29 am out of W over tops of elms
in a straight glide over area & on to NE
no other calls. see scrub J. acc is there
a relationship of jay flight & C.H.?

20 Nov 3:30 pm clear warm one med. height
flaps half day times up & soars in circle to
W to NW a dozen + dunes in elms - no other
bird activity.



Aristuwan
1989-90

Accipiter cooperi

12

22 Nov

9:13 am high fog. Sudden one stooped down from 150' + from N down to W part of W elm on open wings & chased a dove off 50-75' to SW then off to NW over tops of trees. Doves & robins flew (some doves still in tree). There had been towhees & H. finches feeding - flew into Pittos. Then all quiet.

25 Nov 3:41 pm a good rain - one from S over trees circling F-F-S off to NW and dove in middle of W elm on 3/4" branch within canopy of bare branches no flight

11 Dec. 11:30 am clear one just over tree tops from N in a shallow stoop from N to S 75 yds in front of me. Then a flock of 25+ warblers from S on a broad front 100' from S turned & to E - a reaction to the hawk? Then a tight flock of 12± from SW to NE.

12 Dec 8:23 am one in top of up st cedar facing E (me) - brown streaks on breast at 8:25 2 house finches landed in top of NW elm - one almost immediately flew to middle of W elm, one remained - 8:30 hawk flew with flaps to E and H.F. immediately flew down 15' in elm. Two doves about & no birds about at feeding area - except the H.F.

23 Dec 3:39 pm clear one F-F-S med. height SW to NE.

29 Jan. 1990 3:15 pm 1 circling medium h. over upper Sdano area - "brown"

Christman
1990

Accipiter cooperii

13

4 Jan, del Norte St., Berkeley, Alameda Co., caly

12:43 pm. one from N at tree level to area SW of here - 40 yds & then swooped up & on to S. no bird activity before or after.

8 Feb 4:40 pm overcast 2 min. larger than jay accipiter, in top of up st cedar. had lighting but looked gray. flew off to NW circling with flap-flap-soar. broad wings. Several before all the doves flew off together. No other bird activity.

28 Feb 3:58 pm hazy sun one just over elm from NW to SE long glide, no flap

17 Mar one high at 8:57 am F-F-S. SW to overhead broad tail - large - rufous & finches in NW elm - all very still, no overt reaction.

29 Mar. SEE Gold-finch acc't. it was near top - 10' vertical, when it flew a rufous in up st cedar flew down fast

6 Apr 3:52 high W to almost overhead - 1 circling, soar, just a little F-F-S. long narrow tail, "big" at distance.

8 Apr one high, F-F-S circling W to N

9 Apr 10:09 am a stellar jay 4' from top of up st cedar. suddenly flew down calling "qua" call & flew S at medium height a dark brown cooper H, F-F-S in straight line to N saw flight for awhile no bird activity

10 Apr 9:15 am, a big one fairly low F-F-S in circles broad, fanned tail NW to SE.

19 Apr 8:15 am 1 fairly low straight to NW then circled higher, F-F-S. fairly large, no birds about.

Christman
1990

14

Accipiter cooperi

1 May del Norte St, Berkeley, Alameda Co, CA
3:44 very suddenly 20 warblers flew
in a steep descent from leafy upsr
elms to 5. Then a cooper hawk glided
NW to SE - showed no reaction to
warblers. within a minute scrub J
from NW high into cedar (near) - no
call 3:46 flew NW squawking. no calls
from J's, etc before above flew over.

9 July 9:55 am brown one flew from
under NW elm over oak, 25' in front of
me then up high into near cedar. no
bird calls & no bird activity.

14 Sept 1:06 pm clear. Suddenly a bunch of small
feathers came drifting down from cedar
looked out window - a large dark bird
flew SE from cedar at mid-level, then
in 5-8 seconds, it returned from E into
10' below top - couldn't see where, but
it was a hawk. Then 10 sec. it flew
down 30' in front of me to N (toward
the oak 25 yds NW of me) it was dark
brown dorsally. Then it had a small
bird in talons (chickadee or nuthatch)
Then reappeared over elms & flew NE
still bird in talons. buffy breast
(brown streaks?) whitish terminal
band on now folded tail. 1:11 no
bird activity & can see. 1:12 pm nuthatch
muttering to self at D-Y feeder. 1:14 scrub
J. calling close by squawk & nuthatch back.
1:32 chickadee, sitta, now H.F. at D-Y back to
normal? { 1 circling, F-F-S rather high
21 Sept 4:54 pm off to NW, & warbling E.

Main body of handwritten text, consisting of multiple lines of cursive script. The text is mostly illegible due to blurring.

Christman
1990-91 *Accipiter cooperii*

15

24 Sept., 201 Trade St., Berkeley, Alameda Co., Calif
1 circling on fixed wings, NW, relatively
low 200' +, long tail - size

1 Nov 9 am down Salamo Ave. 1 from
N to S, 30' up over low buildings,
brown. appeared larger than dove &
slower flight (it sailed) size of
pigeon - but the body built the large.

7 Nov 10:58 am 1 very high off to far NW
circling on unmoving wings.

21 Nov 11:04 am overcast, 1 from NE briefly into
top of ~~up~~ up st cedar - larger & darker than
band tail; then dove down to circle area
then landed on top utility pole far side & S of
circle. Sits vertical, with 10 paws - ad
(probably ♀) - flew at 11:23 am - head dark
breast no brown streaks light reddish-
largest this sp. I've seen. No other birds.
12:27 pm back at perch for 45 sec. flew S. - low.
(squirrel on deck now).

8 Dec. 1:23 clear - 1 in hood circles rather
high to NW few flaps - I believe an adult

10 Dec 11:22 am overcast - 1 large accipit. 100' +
from S, first soaring then just over tops of
up st elms, some flaps then to top of up
st. cedar for - 1 min. flew (sailing) down to
sw over hawes. all this time 2 doves hummed
up among small branches of NW elm 12' from
top. No reaction.

8 Jan '91 3:43 pm overcast, sat down -
1 large accipiter in top up st cedar, a
complete silhouette - 3 doves 8' from top
of W. elm 3:46 it flew N, up then soar.

23 Jan 9:38 1 large ad sailing past window

Christman
1991

Accipiter cooperii

16

23 Jan., del Norte St., Berkeley, Alameda Co., Cal.
(can't) - 20' over oaks SW to NE, wings
out horizontal. at this time 1 rabin in
top up st cedar & 3 doves in NW elm
among branches - none of these flew.

3:49 suddenly 5 house finches flew from
top ^W side of NW elm - then 4 doves all
fast to S. 2 or 3 sec. later an adult
this sp. landed on 2" branch in middle
of tree where doves had been. It too
flew S. in 20+ sec. saw an breast &
uniform gray - brown down. a
big bird. Is it the same as above?

24 Jan 1:01 - small bird flew out of elms to
S. followed leisurely by large ad -
to SE over elms a few flaps then soared
up to disappear behind near cedar -
as of now no activity.

27 Jan 12:24 pm broken fog. 1 well over trees
F-F-S SE to NW where it gained altitude
a long tail.

28 Jan 11 am an hr. ago I got a quick glimpse
of 1? 200 yds W. Then for 1/2 hr. a rabin on
top utility pole at circle. Then out of WNW 1
200' up F-F-S to S. long tail, big, no detail.
1 dove in middle of NW elm loafing - no other
bird activity.

1 Feb 10:17 am (see warbling acc.) 1 large out
of N to SW, F-F-S.

2 Feb 12:37 from N up to top up st cedar, big dark
head, - 1 min. dove down to W & disappeared
all this time 4 rabin in top of NW elm 20 yds

3 Feb. See Rabin acc't. medium size, medium
height 200-300'

Main body of handwritten text in Arabic script, consisting of multiple lines of cursive writing.

Christman
1991

Accipiter cooperii

17

3 Feb., ~~del~~ Tracy St., Berkeley, Alameda Co., CA
11:30 was watching robins flying in every
direction when there was a flash descending
into oak - ? I went down saw nothing.
On front porch saw a bird high in NW elm
back to my window - motionless on
a 3/4" branch, vertical posture. An accipiter
about 15" long, can't see detail due to
interlooming branches - dark, especially
head. 11:37 still motionless & 10± robins
flew to top of up st cedar. appears an adult
but size = ♂. 11:42 nothing mov. 10' from
top of NW elm among heavier branches. Red
transverse bar on upper breast. 11:47 a robin
singing & few "ticks" - real close. 11:52 some
robins in elm up st. flew S, leaving 5 in top
of up st. cedar & hawk still i.e. motionless
as first seen. No doves about - or anything
else except now 3 robins in up st. cedar.
First of accip the flash descending to oak
could have been the hawk diving &
went past the oak, & it came back to
hangout (as it were) as now at 12:02
12:03 a flight of robins from N - several
attempted to land in top of NW elm 10-15' from
hawk which exploded up then a robin &
the hawk descended almost vertically down
behind the Pittos. Then off to NW another
accipiter, circling high, F-F-S. 12:09
hawk disappeared.

4 Feb 3:20 SEE ROBIN Acc't.

5 Feb 12:43 robins wandering & suddenly flying
then the panic flight of waxwings from NE to SW
then 6 robins up st cedar & 1 this sp. medium height

Mustman
1991

18

Accipiter cooperii

5 Feb., ~~del Norte St., Berkeley, Alameda Co., Calif.~~
circling N to S. a large dove with long
tail & F-F-S.

11 Feb. 2:14 pm sunny. 1 (sp. ? too large) to NW
mid height direct glide - flapping - glide
disappeared, 30 sec. flash of markings
baited out of NW to S, high, 30+.

12 Feb. 10:13 am leaving back to desk & a large
adult in top of up st. cedar, same preening
the best piece I've had - ad ♀ (?) much larger
than hand-tail. Then: a hand-tail in slow
flight from S flew to the cedar, but waded
when it saw hawk & turned E. & in
a very slow flight it flew directly to
near cedar top (which I can't see) and
an horizontal wings glided in. The hawk
immediately flew after it (after landing)
- didn't see what happened. No feathers.

2:39 pm sunny 1 circling with open flaps high
to NW - longtail, faded. 2:50 pm 1 from
NW to SE large, longtail 200' high doves
& a few waxwings in elms, no reaction.

2:57 suddenly waxwings flying over house &
diving low over street then to SW and then
circling high, fast erratic - over 50. Then
too over house to W an accipiter, which
landed briefly in top of up st. cedar - an
adult tho definitely smaller than I seen
several days ago but larger than hand
tail. Was it a ♂?

17 Feb. 10:04 am clear flock of 50 waxwings
from NW to E. then very high 1 circling ENE

2 Nov. 12:04 pm cloudy out of NW circling fast rather
low, 1 large 1 to E., F-F-S - spar with spread wings.

History of the

The history of the world is a long and varied one, filled with many interesting events and people. It is a story that has been told for centuries, and it continues to be told today. The history of the world is a story of progress, of discovery, and of the human spirit. It is a story that shows us how far we have come, and how much we have achieved. It is a story that gives us a sense of our place in the world, and it helps us to understand the world around us. The history of the world is a story that is full of life, and it is a story that is worth knowing.

Christman
1991

19

Accipiter cooperii

- 3 Mar. ad route st. Berkeley, Alameda Co., CA
clearing after rain - about 20 waxwings
in S part of up st. elms - suddenly flew
to W. Then large of sp. swooped down
as it came in from SE - tail-wings
twisting where waxwings were! then it
flew low to SW. The waxwings gained
height circled & split to SE & NW. = 3:00 pm
- 7 Mar. 7:16 am goldfinches suddenly flew
S high from up st. elms. Then 1 swooped
up from S into mid section of elm & hawked
flew off 1+ minute to NE not a good look.
- 8 Mar. 4:30 suddenly a fast stoop into
mid section of NW elm & goldfinches
exploded out - a larger hawk (id.?) thru
tree, turned S - a quick look - not
carrying anything. Ravens & band tailed owl
parade flew. Nothing about now.
- 11 Mar 9:29 am clear. Suddenly 75± gold-
finches flew from elms to S & E low
& as suddenly there was a large accip.
50' over elms out of NW to E gliding
- almost immediately the flock
returned to mid section of NW elm.
Now NO birds in evidence except a
tawhee among the new acorn grubs
on edge of canopy. 4:08 looked up & there
was a band tailed P. top up st. cedar. while
watching it dove straight down! Lower
the birds. There was a circling cooper
disappeared to E. [8:55 am activity with
waxwings low over road with 1 sp. flycatcher
going to neighborhood house - saw 3 birds
14 Mar. 10:09 1 to W. circling F-F-S. to E

Christman
1991

20

Accipiter cooperii

14 Mar. ~~del Norte St.~~ Berkeley, Alameda Co., CA
cants overhead, lots of goldfinches in the
elms & that's about all. long tail

4:29 1 out of SW in high wind (30 MPH PS) to
NW in circles but up & down trying to
get stability. - sawy noisiness, no one here!

16 Mar 3:05 ~~or~~ 1 circling high to NW - large,
long tail. disappeared

17 Mar 4:01 - heavy clouds. 1 from W low over
head to NE. large, F-F-S. 2 down on line
watching but don't fly. F-F-S long tail

19 Mar 4:21 pm heavy clouds 1 high far to W

26 Mar. 1:33 pm overcast. 1 F-F-S incircles
off to W - fairly low, long tail & large.

30 Mar 9:45 clear, calm. 1 rather low (over
tree tops) to 100 yds NW where it circles
up in F-F-S & disappeared to N. a
larger bird. No local bird activity

2 Apr. 9:44 am clear 1 very high to W - NW
circling its large.

8 Apr 3:31 pm clear. 1 over head circling & making
flapping larger size, to E.

11 Apr 9:24 windy clear; 1 from W 100'
above trees trying to F-F-S with some
difficulty, keeps altering flight path
& method - to NE. medium to a bit larger.

18 Apr 8:35 cloudy; 1 from SE low F-F-S to
4' below top of up st. cedar far - 30 sec.
then flew NW low. could see no markings

20 Apr calm cloudy 1 circling to SW-F-F-S
toward E. 100' over trees - medium size
tail spread, rounded, no clear notch.

26 Apr. 10 am 1 pretty high, larger, circling in
typical F-F-S from W to E

Handwritten title or header text, possibly in Arabic or Persian script.

Main body of handwritten text, consisting of multiple lines of script, likely in Arabic or Persian. The text is dense and fills the majority of the page.

Christman
1991

21

Accipiter cooperii

May

2 ~~Sept.~~ ^{May}, del Norte St. Berkeley, Alameda Co., Cal.
5:40 1 w to E rather high F-F-S. Large!

12 May 10:46 a big 1 to W across st. at roof
top level, to the utility pole at circle where
it flew vertically & alighted on top. Can only
see dorsum-gray; big, well over 14" dt
now peering about. (vertical flight \pm 40').
Have been at deck since 9:30 \pm . only 4 flocks
in, no jays. 10:55 an hood wings down at
an angle down, to SW. Can the lack of bird
activity this a.m. be explained by this hawk
in the neighborhood? It seemed to be a ad.

5 July 11:11 a.m. high fog. out of NE 2 birds
flying fast in a broad arch 50' above
trees, then to SW front bird gained
elevation & distance 100' up & from
8' lead to 25' on the larger bird.
It was a small cooper hawk chasing
a morning dove - at last latter
gained & flew SE with hawk then sidling
to SW & down. First time I've seen
a cooper chasing a flying bird.

21 July 11:48 a.m. after patches of fog left
1 from W circling in F-F-S 100' above
tree-top level. Larger, feet dangling
somewhat, rump as flanks seem
light.

1 Aug 2:57 p.m. a brief encounter of one
in a short chase SE tow on a scrub J.
which dove into up st. chns. Saw in F-
F-S in a circle then off to NW. Medium + size
8 Aug 6:29-6:38 p.m. clear hot. 1 up up & down
larger than hand-tail, less-lit, finally flew S
in long glide with few wing beats.

Christman
1991

cooper hawk ?

21 Mar., del Norte St. Berkeley, Alameda Co, CA
almost clear. There was a swoop at 6:05
pm S to N behind oak etc to lawn N
(oak in front yard ?) Then I saw a
bird size (the not bull of handtail P) in
W. elm 10' from top - ~~squawking~~ - ~~hamb~~!
flew fast in same direction as the
falconer - NO other bird activity, no
doves, etc.

30 Oct 8:27 am clear windy 1 circling rather
high to NW. much flapping (sp. ?)

4 Nov 11:20 1 fairly large 1 circling
rather high to NW - classic outline.

12 Nov 4:28 pm dusk 1 50' over elm SW
to E. doves in W. elm. no one else
very little bird activity. Size \pm ab no
detail, FFS

14 Nov 9:09 am - SEE CEDAR WAXWING act.

29 Nov 8:30 am clear in Palo Alto in car
waiting for Anne 1 large bulky 1 to
top of redwood 40' high & 30 yds away.
a flash up to perch in small branches
(1/4" +) quiet for 5 minutes, then bent
backward to a glide away. there
a dozen or so robins about in mag-
nolia trees (over me in car) few minutes before

11 Dec clear calm 3:20 dawn Hapkins saw
1 in shallow glide 50' up to W to same
redwoods, then 60' up over st. so a right
turn - size ab.

19 Dec 4:18 pm clear calm 16 doves feeding & all
spaced, 2 per and more grain than 200'
up an accipiter to NW fighting higher winds.

2 Jan 92 3:30 pm 1 low over Kensington, big one

1. The first part of the report is a general introduction to the project. It describes the purpose of the study and the objectives that were set at the beginning. It also provides a brief overview of the methods that were used to collect and analyze the data.

2. The second part of the report is a detailed description of the data that was collected. This includes information about the sample size, the demographic characteristics of the participants, and the specific measures that were used to assess the variables of interest.

3. The third part of the report presents the results of the data analysis. This includes a series of tables and figures that show the mean scores, standard deviations, and correlations between the different variables. It also includes a series of statistical tests that were used to determine whether the results were statistically significant.

4. The final part of the report is a conclusion that summarizes the main findings of the study and discusses their implications for future research. It also includes a list of references that cite the sources of the information used in the report.

Christman

22

1991-92

Accipiter cooperii

10 Aug. del Norte St., Berkeley, Alameda Co., CA
1 pm clear. a dove exploded from
roof to SW low over oak & elm. Then
a stellar jay called from N. 5+
seconds 1 brown above low over
house - roof and oak - gliding
swiftly 1 good look; dark sub-
terminal band of tail & flank
feathers high on sides of rump!
a lig one.

14 Sept 9:25 am Fog. 1 top up S. cedar, can't see
any color or pattern - large as or larger
as hand-tail. No birds on landing, etc.
9:28 it dropped in a steep dive to S.

1 Oct 1:30 pm clear - Safeway Store down
on Salans Ave. 1 circling north face
flaps, 175' up, slowly working up to
N - I was watching from parking lot.
as it got over the store a flock of
35+ *Columba livia* also started
circling over street & parking lot,
under the elevation of hawk, when
within 50' of hawk they suddenly
formed a more compact flock. The
hawk made two very halfhearted
gestures toward pigeons which dove
fast. Hawk made no stoop at flock
or 2 or 3 singles flying about.

27 Dec, 9 am lower Salans Ave. overpass
2 circling, F, F-S, 1 was 150-200' up
the other 400' ± do there a sexual
dimorphism in circling altitude?

18 Jan 92 9:45 clear/windy 1 from S at tree
height swooped up to land 4' from top of

Handwritten text at the top left, possibly a title or date.

Handwritten text at the top right, possibly a date or page number.

Main body of handwritten text, consisting of multiple lines of cursive script. The text is mostly illegible due to blurring and fading.

Christman
1992

23

Accipiter cooperii

- 18 Jan., Del Norte St., Berkeley, Alameda Co. CA
up 25 cedar for 30 sec then flew down
to N. About 12-14" long adult dark
head, neck not especially short.
- 11:15 1 from SW 100' up over everything flying
against wind - slowly flew to the near
cedar & landed on 2" branch 15' from
top & 3 1/2' from trunk. Looked about for
1 minute then flew over house, its 14+" in
total length red bars on breast. 11:29
tail back on landing - heard no warning
calls.
- 26 Jan ? id. 11:20 high circling, flapping
& staring, tail closed w/eq white
flanks and ? rump, W to E.
- 11 Feb 10:12 am partly cloudy 1 soaring in
circles high to NW?
- 1 Mar 12:04 cloudy, calm 1, S to N, high circling
no flap, tail spread
- 13 Mar 11:57 am breezy partly cloudy.
1 circling overhead briefly. ? ♂ well over
top of cedar.
- 17 Mar 9:07 am clear, calm. A large ad. from N
up in a steep move to top up 50 cedar.
Intense staring. Then dove from S to spot
of NW elm to 2" limb. Hawk launched
in steep down, at dove which flew S.
hawk turned & got perched up in branches
with wings spread. Followed dove
to S.
- 21 Mar 12:13 sunny 1 circling to W then high
overhead, F-F-S.
- 23 Mar 10:08 am variable clouds 1 circling &
flapping high to W.

The first of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much.

The second of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much.

The third of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much.

The fourth of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very active. We went to the lake and saw many beautiful flowers. The children were very interested in the flowers, and we all enjoyed the walk very much.

Accipiter cooperii

6 June
looked up from reading - a big one
top of utility pole at circle feeding
on something, tearing chunks. 20' to
N 3 House finches, then more over 2
minutes - total 7 (20-30 from head)
50' to SW / H.F. then 3 more, at 1:15 it
flew with its prey to S. total observation
was 2 minutes plus clear, messy
it's a dark adult. The house finches
flew after it to S. (total H.F. 8-10)

28 Sept 11:07am clear a scrah I have
from ? cedar into Pittos. with several
specimens. Then a medium small
accipiter from SE across house in F-F-S
circling to NW. sub. J. to landing
for sunfl. seed 2 min. later, no call.

19 Oct. 11:59 am Fog. Large (12-14") bird
glides from S to mid section of NW elm
among leaves; 30 sec. 1 of this sp flies
NE a quick good look. No other bird
activity. Earlier flock of waxwings in
top of NW elm. Suddenly flew S; watched
saw nothing. Have been normal
activity this a.m. - single robins,
small flocks of waxwings, jays, etc
but NO doves. Yesterday found
lots of dove feathers in back patio!

14 Nov

11:53 high cirrus, cool. 1 circling high to W, F-F-S, long tail large. There are 9 doves loafing in N-W elm - no motion.

24 Nov 12:40pm cold, overcast when 1 from SE over oak to NW then elms - low, loose, languid flight. medium size

9 Jan 93 overcast, light sprinkles, 9:15 suddenly 10+ doves in NW elm flew S & down, 2 sec. later hawk sailed in from N, then veered to W & alighted 70' up in up 50 elms for 30 sec then flew W, low.

9 Feb 10:18 1 circling to W, short F-F-S & long arching glides no doves about

19 Mar 10:42am fog; 100+ goldfinches suddenly flew S & down very fast 5 sec. a large accipiter just over tree tops from W to E - F-F-S, & paid no attention to goldfinches.

24 Mar 3:44pm 1 W to NE rather low in circles, F-F-S.

31 Mar 10:09am hazy clouds 1 to 5 well over trees fair size F-F-S.

23 Oct 10:41am clear, 1 well over trees F-F-S, from E to NW gaining altitude.

17 Nov. 2:54pm overcast, first a flicker from N then scattering of over tree top watching, then hawk circling to NW well over tree tops.

9 Feb 94 8am fog, 1 large top of up 50 cedar after 1 min. flew N low.

1912-13

1. The first thing I noticed when I stepped out of the train was the cold. It was a sharp contrast to the warm blanket I had been wrapped in. The air was crisp and clear, and I could see the snow-covered ground stretching out before me. I took a deep breath, feeling the cold air fill my lungs. It was a refreshing experience, and I knew I was in for a good day.

2. As I walked down the street, I noticed how quiet it was. The only sounds I could hear were the crunch of my boots on the snow and the occasional distant bell. The houses were all covered in a thick layer of snow, and the trees were bare and white. It was a beautiful sight, and I knew I was in for a good day. I continued to walk, feeling the cold air fill my lungs. It was a refreshing experience, and I knew I was in for a good day.

3. The snow was falling again, and I knew I was in for a good day. I continued to walk, feeling the cold air fill my lungs. It was a refreshing experience, and I knew I was in for a good day. The snow was falling again, and I knew I was in for a good day. I continued to walk, feeling the cold air fill my lungs. It was a refreshing experience, and I knew I was in for a good day.

4. The snow was falling again, and I knew I was in for a good day. I continued to walk, feeling the cold air fill my lungs. It was a refreshing experience, and I knew I was in for a good day. The snow was falling again, and I knew I was in for a good day. I continued to walk, feeling the cold air fill my lungs. It was a refreshing experience, and I knew I was in for a good day.

Accipiter cooperii

19 Feb

11:15 am overcast, no rain now, with fairly strong gusts of wind. everything wet. sparse tree top from NW - one fairly large A. tail fanned trying to gain height to top near cedar - into wind - struggling up lanes, etc. about (not sure before 10)

12 Mar. 11 am. Fog on. goldfinches have accumulated, via small flocks, have strayed fast from N & low 50' over small fields, then up to tree height to S. Flew to NE over trees as at least 100 goldfinches circled high, a large accipiter.

15 Mar 8:14 flock in upper 1/3 NW elm. suddenly all flew to S. then in 5 sec a large adult zoomed N to S, 70' up very fast behind oak & disappeared. 9:02 from NW one (same?) to SE over NW elm, etc. descending on fixed wings rather fast. 10 birds about?

18 Mar 12:32. Weather cloudy. 1 large ad plummeted down from SE, breasting fast like a dove into N part of NW elm & lots of goldfinches fled! Hawk turned to S & W flew highest to NW with goldfinches circling.

1 Apr. 12:09 1 large, circling NW over trees - 20' to N.

2 Apr. 1:29 pm heard a hum! 10-15 flocks of winter wrens & robins flying to S at eye level, E of oak & near cedar. Was it after a house finch?

4 Apr. 1:00 pm PA. clear to 2 pm; then thin cirrus to

First paragraph of handwritten text, consisting of approximately 10 lines.

Second paragraph of handwritten text, consisting of approximately 10 lines.

Third paragraph of handwritten text, consisting of approximately 10 lines.

Christman
1994

Accipiter cooperii

27

9 May

1 pm \pm 1 on top up st. cedar for several min. preening, esp. tail (brown with dark bars) large, facing W. flew down to NW. a scrub T., & down from it calling & in case.

11 May Talked to Bob Jones at MVT w. side of Mulford Hall - meeting Cooper Hawks of NKT.

15 May 3:26 pm overcast, wind from NE to SW below elm level 1 very large & very fast in a stoop - 1 sec.?
descending

18 May 10:20 fog breaking up. 1 low, below tree level NE then up to top of utility pole at circle for 1 min. then N, again low - brown back, cross size - ♀?

26 May 1:33 pm partly cloudy / sun out of NW well over the trees 1 to E, f, f, S as heard it could going side ways to a brick W. wind - a big one.

11 July 10:30 \pm am clear; 1 ad briefly on top of up st. cedar.

7 Oct 3:24 pm clear hot. 1 well overhead to WSW, F-F-S and large

24 Oct 11 am Yürching high - big

1 Nov 1:06 pm overcast 1 circling hi to SW

1 Dec 11:17 am overcast 1, large dark, to up st cedar briefly - no birds feeding.

15 Dec 2:30 - 2:40 \pm cloudy - saw 1 large top up st. cedar, facing E - dark head & red breast, bigger than robin. a flight of robins from N past cedar, hawk dashed - 3 robins in top of NW elm for 5 min. no reaction of hawk, then it flew N

The first of these is the fact that the
 majority of the population of the
 country is of African descent. This
 is a result of the fact that the
 country was colonized by the British
 and the French, who brought with them
 large numbers of African slaves. These
 slaves were used on the plantations
 and in the mines, and their descendants
 now form the majority of the population.
 The second fact is that the country
 is a democracy. This is a result of
 the fact that the country was
 colonized by the British, who brought
 with them the principles of democracy.
 The third fact is that the country
 is a free country. This is a result of
 the fact that the country was
 colonized by the British, who brought
 with them the principles of freedom.
 The fourth fact is that the country
 is a peaceful country. This is a result
 of the fact that the country was
 colonized by the British, who brought
 with them the principles of peace.
 The fifth fact is that the country
 is a country of progress. This is a
 result of the fact that the country
 was colonized by the British, who
 brought with them the principles of
 progress.

15 Dec

4:17 pm cirrus - its back! - on top of
up st. cedar. NO local bird activity
as earlier today.

15 Jan 95 8:30 am clear 1 top up st cedar.

21 Jan 11:23-30 daws 1 top up st cedar
feeding 5, 2 daws in. A hummingbird
buzzed it 3 or 4 times. then flew up to N
& started circling F-F-S.

18 Feb. 10:53 clear large ad (bl. cap, red breast)
top up st cedar for 1 min & then in sharp
stoop down to area behind my cab. overhead.

21 Feb 10:22 am clear 1 circling high W & to E

23 Feb 9:19 am fog. 1 (same?) top up st cedar
- 1 dawe in feeding - abruptly fawms
launched this way & dashed top of NW
elm & continued the off heat, dawe
flew to S. Daws moved to S across cab.

24 Feb 10:16 am fog 1 (same?) top up st
cedar 10:20 sharp stoop down to NW.
No daws in feeding - bird activity stops!

3 Mar 10:17 am patchy clouds - ad large
back in top of up st cedar. Then a long
leisurely glide to SE. No birds as
have been observed

7 Mar 12:15 pm overcast, calm. 1 to NW rather
high, circling slowly, no flaps, good look.

8 Mar 12:50 pm lite rain. a flight of robins
from W. then swoop up & a hawk smaller
than 1 seen of late (sp.?) to top up st cedar
for a minute then to N.

30 Mar 8 am ± clear, 2 up 150' to N at Salano
& S. to 70. Aerial flitting acrobatics.

22 Apr 9:19 am clear 1 top up st cedar, 2 min
ad. large. no birds observed here.

Handwritten text in a cursive script, likely a letter or document. The text is written in dark ink on a light-colored paper. The handwriting is fluid and characteristic of the 18th or 19th century. The text is arranged in several paragraphs, with some lines indented. The overall appearance is that of a historical document.

Accipiter cooperi

29

10 July

2:30 pm clear - hot & clear. 1 ~~Ad~~ ^{juv} Cooper's Goshawk seen
1 flying over, 1 seen, etc - 60' & being
chased by 2 Crows, Bl-b. Then it was
chasing a mourning dove for 100 yds
disappeared behind building - came
& behind dove, shallow wing beats
this is a big ad.

12 Oct clear 10:16 am big ad top up st cedar.
10:17 flew w. overhead

4 Nov 12:53 pm sun & cirrus 1 circling high

8 Nov clear 8 am looked up from deck
& there in NW elm, 12' from top on 1"
branch was a large 1 preening
(probably has had breakfast).

9 Nov 10:30 am Fog - thick, 1 to top
of up st cedar for 1 min. then
a long glide to SW.

15 Nov 9:10 am fog; 1 SW to NE, f-f-s,
just above tree top level, not fast

18 Nov. 11:20 am high fog. 1 made a pass
low to S, by E part of NW elm. There
has been an open, loose congregation
of robins in neighborhood & in elm.
Sawb swooped up 100' to top of near
cedar to top, for 1 min. then flew to S.
afterwards no bird activity.

25 Nov. 9:23 am clear, calm. 1 ad top of
up st cedar, a little preening, flew N.
apparently didn't see resting doves, NW elm
16 Jan 95 2 pm 1 top of up st cedar, saw dove to
N. & immediately 15-20 doves flew S. no sight of
hawk again. no doves, this a.m.

7 Mar 10:11 clouds; 1 from SE low, small birds flying
to top of up st cedar; 10:14 shallow stray to N.

Journal of the

1850

The first of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very happy. We went for a walk in the park, and the children were very happy. The weather was just what we needed, and the children were very happy.

The second of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very happy. We went for a walk in the park, and the children were very happy. The weather was just what we needed, and the children were very happy.

The third of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very happy. We went for a walk in the park, and the children were very happy. The weather was just what we needed, and the children were very happy.

The fourth of the month was a fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and the children were very happy. We went for a walk in the park, and the children were very happy. The weather was just what we needed, and the children were very happy.

Christman
1996

Accipiter cooperii

30

31 Jan

3 pm clouds: walked in to room & there in NW elm (100' up, SE side) an adult c.h. facing me. on edge in front of me a dove & 3 on line NW of house. an obvious stand-off. The h. peered everywhere. After 2 min. it launched itself directly toward me! Immediately all doves exploded to S followed by hawk. 3:34 it was high in NW elm for 1 min. then flew to NE side of NW elm near top for 2 min. then flew N.

11 Mar 7:30 am clouds 1 circling at tree tops to W then to SW.

4 Apr 96 10:25 am clear 1 below tree level between elms & up SE cedar to W, then circling, F-F-S, high & higher then to E. This 1 smaller than those seen lately.

26 June 1:24 pm clouds 1 briefly top up SE cedar

7 Aug 1:09 pm clear; 1 ad low over house & trees to NW, swooped up to a slightly drooping branch of up st. cedar, 5' from top, in shade. could see head: adult. For 1 min. then swoop down to N.

16 Aug 10:53 am clear 1 chasing what appeared to be a House Finch around NW elm, 100' up & down block around more trees its tail shows with dark bands - juv.?

8 Oct 1:05 pm clear/hot 1 sailed (F-F-S) NE to SW

12 Nov 11:15 am clouds 1 medium-size A. from W at tree top height, made a flying pass at small bird near elm - then to N.

4 Jan 97 2:25 pm overcast 1 ad. top of up st cedar for 15 min - flew/sailed down to W was hunched up, perched on ht. fact.

18
The first of these is the
fact that the world is
not a uniform whole, but
a collection of many
different parts, each of
which has its own
character and history.
The second is the fact
that the world is not
a static whole, but a
dynamic one, in which
everything is constantly
changing and moving.
The third is the fact
that the world is not a
simple whole, but a
complex one, in which
everything is interconnected
and interdependent.
The fourth is the fact
that the world is not a
single whole, but a
many-sided one, in which
everything has its own
value and importance.
The fifth is the fact
that the world is not a
single whole, but a
many-sided one, in which
everything has its own
value and importance.
The sixth is the fact
that the world is not a
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many-sided one, in which
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value and importance.
The ninth is the fact
that the world is not a
single whole, but a
many-sided one, in which
everything has its own
value and importance.
The tenth is the fact
that the world is not a
single whole, but a
many-sided one, in which
everything has its own
value and importance.

Christmas
1997

31

Accipiter cooperi

28 Jan.

9:50 am clouds, 1 ad. top up St. cedar for 3 min. \pm then flew S.

9 Mar. 5:15 pm clear doves panicked flew everywhere then a large 1 top of up St. cedar - ad. 5:18 stooped down to NW.

25 Mar 9:55 am high cirrus, 1 circling high w to N.

8 June 3:48 pm clear. a quick, dark flash from S over oak (N) named Pittos to a bare branch of oak near door (N) 60' partially caused it jumped to another branch. 30 sec \pm flew low to S over street. dark gray, banded tail 12" + no call. no other bird activity.

18 June 10:51 am clear 1 ad. top up St. cedar for 1 min. +, then near vertical stoop down to N. No bird activity.

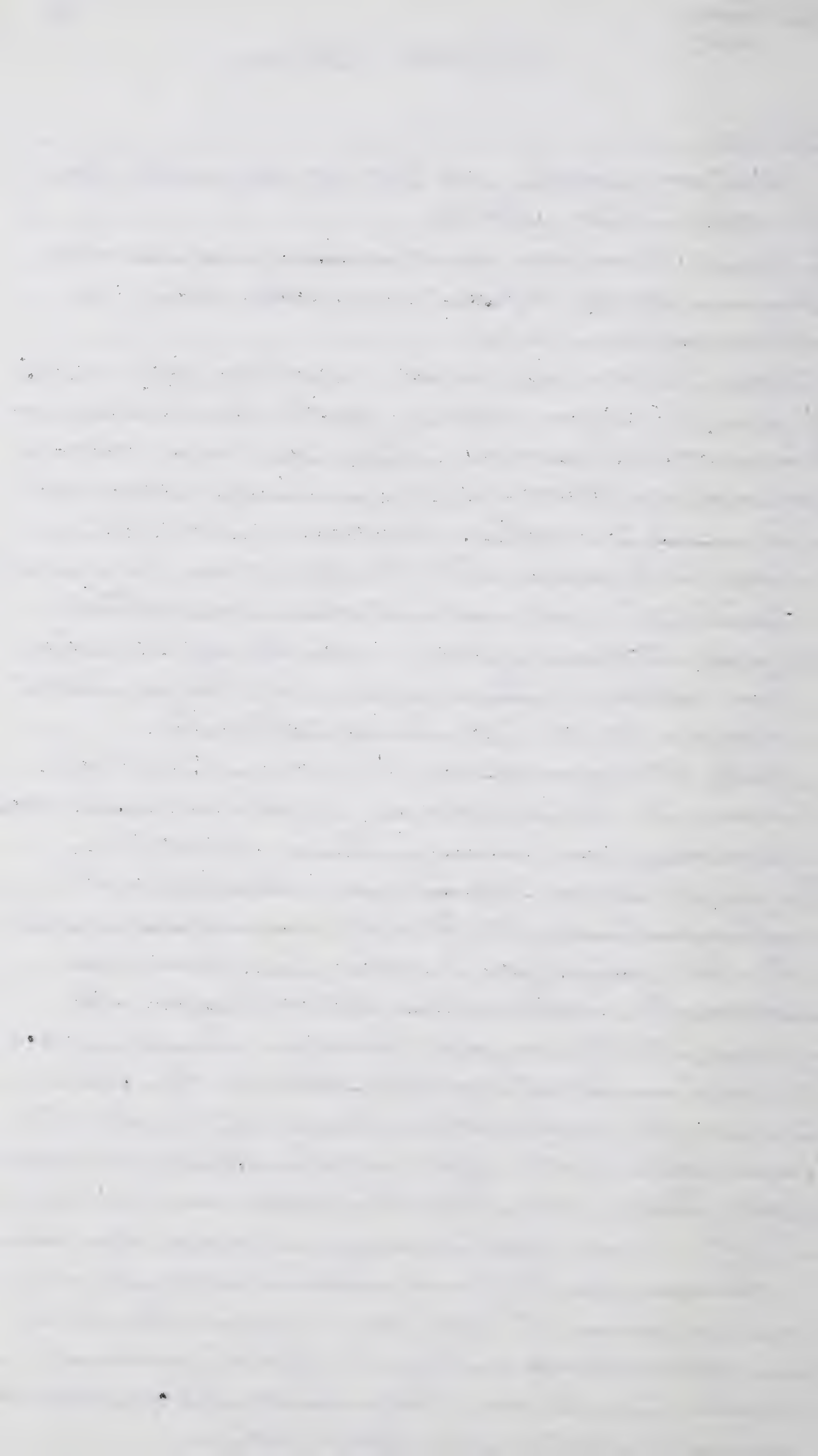
1 July 3:31 pm clear 1 from N under trees to 1 1/2" branch high under oak canopy for 1 min. \pm then low to S.

31 July 9:26 am Fog. Large 1 sailing fast between trees, SE to NW, swooped up to NW cedar for 3 min., then fast dive down at circle where lots of traffic, etc.

25 Sept 10:04 am a few clouds. 1 large brown accip. in top of up St. cedar 30 sec. flew to NW. In preceding 1/2 hr. no birds into feed & a few min. before hawk appeared several dove flew from almost bare now, NW. down

7 Dec 2 pm light breeze, clouds after rain.

1 large ad. from S to 1/2" branch in up St. slms 70' up for - 1 min. flew to W. reappeared on top of utility pole at circle - for 3 min. then steep stoop almost vertically down = disappeared.



Christmas
97

32

Accipiter cooperii

23 Dec

a big shape in top of up st cedar -
for 15 min after 2:30 pm clouds. when
it eventually flew (not a band-tail)

98 Flew W, then a sweep? up to near
cedar! No birds in to feed!

↓ 2 Mar 10:50 am clear, bits of fog. 1 large!
sailed well over tops of trees N to S, 1 flap

10 Apr 10:09-12 am clouds. 1 top up st cedar
peering about, flew down & to N. one ♀
down on ledge didn't move

11 Apr 9:30 am. overcast. On Eucalyptus
having coffee saw briefly a large
ad. chasing a crow from an Eucalyptus
tree to NE 20' up. The crow easily out-
maneuvered & flew back to tree.
9:44 a large one from W sailed up
to dead branch of near cedar - 4' from
trunk (at 45° angle, 60' from ground for
2-3 min. before flying off. Peered
about, defecated. (2 doves - a pair & a hawk
were about before no bird activity
while hawk in tree, etc).

30 May 98 11:32 am clear, minor fog, from
N to S, well over trees a Turkey Vulture
being harassed by A.C. with dives, etc
vultures with much dogging; turned
to NW, higher separated; V to NW, A.C.
to W. never have seen this before

9 July 7:09 10:11 am, low over house, under
elms up st. to utility at circle for 1 min.
dark, large; no other bird activity

8 Jan. 1999 10:10 cirrus, 1 top of up st. cedar, 4 min.
then flew steeply down to W.

Christman
1999

33

Accipiter cooperii

6 Mar.

8:45 ± am clouds at Safeway on Solano
ave. 1 this sp. across empty parking
lot 8-10' up to E & swooping - followed
by 2 crows ~~over~~ 25' above handballing
cannon landing - hawk moved up behind
a tree.

12 Mar clear 1:02 pm 1 circling high, W to E.

13 Mar clear, 11:19 am. 1 FFS, tree top to S.

9 Apr clear, 9:59 1 large ad. from low to W, to
top of up sp. cedar, 10:04 flew NW, then
circled higher to S. - F-F-S.

17 Nov. 9:34 am clearing after rain; 2 low to
NW then to near top of near cedar. big

Christman
1974

Columba fasciata

- 18 Feb. Del Norte St., Berkeley, Alameda Co., Calif. 5:15 p.m.
Yesterday and today at this time saw a group
of 20 to 30 flying into a tree which appears
to be a Holly (red berries) on Terrace walk. Many
birds feeding & flying into about tree which
is 50 yds up hill from gutter at corner. These
are
- 26 Jan 1975 same. one bird in sexual display flight from
corner N. of Los Angeles St. over "circle" & to S over
our house at 4 p.m., clear, cool after fluffy cumulus.
- 1 May same at 8: a.m. a newly fledged juv. on our
front porch. it was not afraid, picked it up &
moved so cat wouldn't find it. Left by mid morning
- 17 Oct same about 30 flew by lawn about 5:30 p.m.
circled & almost half landed in atlas
cedar next door. Most few off several
minutes later. Pair still about trees in
front of house.
- Jan. 1977 same Have seen about 6-8 last several
days. They disappeared all fall; first seen
19th of Dec. They have been calling & seen in
pairs. am starting to feed on landing upstairs.

Wishman
1987-88

Columba fasciata

4

- 6 Aug. del Norte Berkeley Alameda Co., CA
7: a.m. one called who-who-who
from top of cedar tree & then
flew with flap of wings - the first
bandtail in at least 3 months.
- 10 Aug. yesterday 2 in filmy tree
next door (W) in top 40' up
in late afternoon
- 11 Aug. 7:30 a.m. 2 in same place.
one flying about 9 a.m. +; then
one was twice in top of same
tree tugging at branches &
then flying to S. feet - a deep
cadmium yellow-orange and
very obvious.
- 25 Sept. Have seen none! 30 Oct. Same
- 11 Oct. saw one flying into elm on Hopkins
st 1/4 mi SW from house collar obvious.
- 9 Jan. overcast, what looked to be 1 circling
- 21 Jan 2:55 pm clear 2 circling to W, ^{much} flapping
4 pm one close to W - wing-slow flight
display; then two others flying direct,
the first bird landed in top of cedar at
the street, followed by others. Saw in 5 min.
- 4:12 pm display flight from S & landed in
the above tree. - flew at 4:16. 4:22 back in
cedar for 1 min. then display flight to the
SW - low!
- 22 Jan. almost overcast with high clouds at
2:15 pm. one very high from N; then much lower
but high over house one in courtship
flight to W.
- 23 Jan 9:52 am a quick glimpse of a flock low
over my cedar & house 10+
- 27 Jan. seen several fly over area not courtship ^{tho}

Christman
1988

calumna fasciata

2.

- 27 Jan. del Norte St., Berkeley Alameda Co., Calif.
4:04pm one in display flight medium height to WSW — No big flights as seen before (except other day)
- 28 Jan. ~~1:12~~ 1:12 pm one in circling display flight 100 yds to west.
- 29 Jan. 4:14pm end of storm (?) seen out, one in top of cedar up the street. 4:33pm flew low to tree 200' away over the tunnel.
- 1 Feb 1:35 pm scattered cumuli One off to WNW very high for a pigeon circling, little flapping, sailing with spread tail — could see the head. no fluttering of wing tip — a display. 2:08pm 2 suddenly sailing low from N to block to W; wings set descending.
- 5 Feb. 4:30 pm high clouds. Saw 2 fly into Pittsford across the st., one flew S. another on power pole to WNW.
- 6 Feb 3:12 pm high clouds two flew into top of cedar up the st. 3:26 pm flew off to W — up the Arlington to a group of trees — 100 yds + away.
- 8 Feb 1:33 pm one circling due W fairly high, then descended & landed on power pole W. of the circle 100 yds away. This was a typical display flight of fully spread wings, narrow beats with the spread primaries quivering; tail spread.
- 2:05 pm. now 1 in top of cedar up the st., preening.
- 2:37 pm 2 flew by to N & one minute ~~away~~ they sailed past fast to S, low. One circling high in display to NW making broad arcs. Then to N and came sailing down and landed on same power pole to W.

Christman
1988

Calumba fasciata

3

8 Feb., del Norte St, Berkeley, Alameda Co., Calif.
the high circles seems almost a
half mile away & very high. Seems
pair formation is beginning early.

2:49 still on pole, preening. at this distance
- about 100 yds it appears large. 3:05 pm
a turkey vulture flew over the pigeon
above it, but less than 50 yards from
it - the B-t. pigeon did not fly. 3:11 pm
flew off pole & circling to SW low. 3:19
pm again one circling, displaying to
SW & W at medium height; then low
over circling going to NW. 3:22 back
on the pole. 3:24 pm flew 5 last is. + 1 min
one flew over high to E out of view.

11 Feb 2:21 pm one circling high to the W

14 Feb 10 am one in low display flight ^{midday} 1/4 Hopkins

16 Feb 8:44 am one in top of cedar up the St. ^{St.}

The white color shows up very prominently

9:53 flew. can't hear any call notes. 10:04 am
flew up from SW to top of cedar up the St.

flew to NW in continuous flight (no display)
(display presumably - what do I do?)

19 Feb 2:23 pm one in display flight, ^{medium} high off to W.

3:35 pm one circling in display flight 100+ yards

NW to over house - tail spread, neck out, wings
stationary, fully spread, but primaries finishing

landed on power pole up at circle 3:39 sat down
horizontally brief. 3:54 seems upper neck swollen - is it

(he) calling - 100 yds away. 3:55 flew/display flight over pole
then off to NW - 1/4 mi +. Briefly very high off to NNW

20 Feb 9 am 1 fly among elm at Alameda St &
Hopkins.

21 Feb 12:24 pm one in flight display ^{low} over house
to tree 75 yds to WSW where it landed.

Christman
1998

calumna fasciata

4

21 Feb., del Norte St., Berkeley, Alameda Co, Calif

2:07 pm one circling display high to W.
minute later one on pole at circle - first today
at 2:08 - flew at 2:17 to W - far, and circling
display high $\frac{1}{2}$ mi W.; then flew high to NW. 3:5
one circling high overhead in slow flight /
display. 4:19 pm 2 in top of upst. cedar, one
flies down to NW. Other remains at very
tip of the tall tree. 4:21 gone - ? 4:26 one in low
display flight from W lands on top of power
pole at circle - 4:28 flew W - circling
high off to NW.

22 Feb fog 8:10 am one flew from NW onto top of the
cedar up St. - displaced a raven. 8:15
flew to trees S of me - low. 1:30 pm one
on power pole at circle - was there when
an accipiter sp? flew by 30 yds from it!
preening. 2:04 flew when accipiter flew by.
3:05 circle/display flight 500 yds NW (and 2
at 2:30 pm)

23 Feb 10 am one circling high, display to W. ^{overhead}

10:20 am has hasb doing the same display
very high. same at 3:49. Do accipiters
follow these feeding flocks?

25 Feb overcast, 2:38 pm one high in
circling display

7 Mar 7:15 am among raven calls, a deep
loud resonant who-who-who. this sp.?
have heard before, though some time back.

14 Mar. 6:30 am one deep "who-who" call
from SW cedar or? real close.

2 May one was briefly in very top of upst cedar
at 7:26 pm.

24 May, 4:26 pm 2 on fixed horizontal wings sailing
from SW to NE 25' above trees, tails fanned.

Christman
1988

Columba fasciata

5

2 Aug., del Norte St., Berkeley, Alameda Co., Calif
12:50 pm one flew into cedar.

12 Aug 10:53 am call: "coo-oh" or "coo-oo"
11 am one flew from lawn around the
W. Elm up & into the S. cedar. Another
call.

26 Aug. 9:30 am one flew over rather low
but above tree tops from S to N. Clear hot.

19 Sept 9:32 am, high clouds, one slow
heavy flight over elms into very top of
up st. cedar. Reentering 9:45 am flew low
to S — trees near tunnel?

5 Oct 4 came sailing in from NW just at
tree top level to SE. Too big for C. livia

14 Oct 10:13 am one flew SW to NE well over
tops of trees.

6 Dec ??? 3 flew N at 4:16 pm size ab, they
were high & bulkier than a pigeon.

8 Dec 3:24 pm one on top of up st cedar, clear; flew
low to S to trees near the tunnel.

26 Dec 2:52 pm looked up from reading &
there on the ledge was a big beautiful B-t.
It looked about (I had not seen nor heard
it come in) & jumped down to feed with
7 + mourning doves. almost twice the bulk of
the doves — no interactions — saw me &
jumped onto ledge, looked about & flew
S — to the cedar? No huge fright. Hopkins
St.

29 Dec 3:15 pm one on utility pole 3 black doves near

31 Dec 3:30 pm 2 in feeding with a few doves
doves flew when saw me, then pigeons flew to
cedar — a 6" branch 40' up 3' from trunk. They
didn't fly when I walked out of house 5 m. later

1 Jan 7:15-8 am "uhoo-c" repeated several
times

Wistman
1989

Columba fasciata

6

5 Jan., del Norte St., Berkeley, Alameda Co., Calif

3:46 pm one on nungtop of up st. cedar

3:48 flew S. slow decent; first glide, 50' horizontal wings & vibrating primaries for 75', then glide up into dense trees at the tunnel area.

6 Jan 3 pm dandy 2 in slow glide from N to SW not too high; one gave a brief wing flutter - lower to SW.

12 Jan 3:25 pm one flew from cedar to NW & then turned to the S.

13 Jan 11:40 one in top of up st cedar.

This species is not only large, they have broad shoulders and are a considerable bulk when perched in the top of trees, especially trees with a spindly little trunk at the top. Rock Doves never perch in tops of cedars!

11:54 am flew to NE. 2:32 pm one flying in circles fairly high to W, with several wing quivering - slow flight periods. off to NW.

2:40 one landed on utility pole up at circle.

2:46 slow flight to SE

3 Feb 5:15 pm one in middle of oak on 6" branch, peering about.

7 Feb 3:39 pm one in feeding with 3 doves!

21 Feb 1:53 one landed on 5" branch inside canopy 20' up; walked along branch & disappeared, behind leafy branch. 1:58 it moved 7' up into dense part of canopy & moving about the smaller branches - 1". 1:59 flew down to open area under canopy to SW part of the oak, 2:09 checked it from down stairs it flew to original spot from canopy at N side of tree higher up. 2:32 pm from N 15' off ground to oak & up under the

Christman
1989

Columba fasciata

7

21 Feb., del Norte St., Berkeley, Alameda Co., CA
canopy - disappeared in foliage. Is it
feeding? Or what? Or nest site hunting?

? 2:47 down stairs: it is preening on a
2" limb 30' + up in oak & 8' \pm from top
canopy (from the inside). preening upper
sides under wing, from above. 3:19 both gone.

25 Feb variable clouds. 4:28 pm one flew low
over house to NW & landed in oak 35 yds to
NW - flew calls from it. 4:32 it flew low
to my oak & up under canopy & disappeared
1 part of tree. 4:34 then up into cedar & landed
on 6" branch near trunk.

~~11 Mar 5:00 pm one in top of up oak near house~~
5 Mar 6-7 am one "Co-O"-ing real
close. This 2 part call given as a houghs
- 6 or 7 times.

8 Mar 5:30 pm at least 1 inside ~~oak~~ ^{oak} of oak
walked S. on horizontal limb.

9 Mar 10:15 am cloud cover, same wind. One on
top of utility pole at the "circle", preening.
7 low NW in a broad arc at 10:30 am - low.

10 Mar 12:55 pm cloudy: one on horizontal
branch near top of up st cedar (SEE SHARTZ
SHINNED Hawk Acct.) 1:13 still in cedar = preening
1:23 flew SE - a slow ponderous flight.

30 Mar 4:50 pm one flew low (60') into mid
section of 2 NW elm for 2 minutes, then a
slow flapping flight thru branches - into
oak NW (?). So they are still about.

24 Apr one seen flying into Eucalyptus on Hopkins
St - Grove St. at 8:30 am.

29 Apr 9:01 am one flew down from near cedar to
Joan RFF feeding on landing.

Handwritten notes or a small section of text on the left margin.

Main body of handwritten text, consisting of several lines of cursive script.

Wistman
'89

8

Columba fasciata

del Norte St. Berkeley, Alameda Co., Calif
at 4' vis is dark brown with a narrow
fleshy orange eye ring. The feathers
at back of neck (scale effect etc) are
raised & louvered, feathers in diagonal
rows.

2 May 7:15 pm sun almost down a large
brown one in - flew to cedar when I came
into room. This is an exceptional bird,
size wise.

3 May 7:23 pm clear same pigeon in to
ledge from ~~roof~~ saw me - stared for
a minute then flew to densest limb of
cedar 7:31 flew off - took her in to feed.

10 May 6:17 pm House finches at feeder 15
doves on landing, then a band tail in to
line 18" from house, cleaning its neck,
casing the place, then flew & tried to
land on feeder perches. failed. Then
another came in from (cedar?) to
landing. both there for several
minutes. The first one tried again to
land on feeder. It took several notes
before they disappeared from landing
then both down to feed. Several doves
came in. Then they flew off with doves at 6:22

18 May 7 pm one high in near cedar; it
came into ledge with doves & H.F. saw me
& stared for a minute & flew back to cedar
- it is the same large one.

23 May 9:07 am the same large one (or ?)
came into feed, doves flew. very shy.

7:08 pm bright sun - he is on the line 6' from house
& 5' down 2 doves. Nest rather sedate

It is in many cases, however, that the
large number of cases of the disease
is not due to the disease itself, but to
the fact that the disease is often
confused with other diseases.

Chis truen
1989

Columba fasciata

26 May del Norte St., Berkeley, Alameda Co., Calif

7:29 the old boy feeding with 6 doves,
he saw me & went right on feeding.

4 June 6:25 am \pm light rain heard the
heavy flapping of the big one come
in, feed for awhile (a minute \pm ?) then
depart.

6 June 9:42 am 2 flew N from high cedar ^{in near}

9:53 am one landed in top of up 21 cedar. 9:54

flew down to 5 - didn't see above to!

2 July 6 am one in near cedar calling

"Too - ooo" while doves feeding on landing

12 July 9:30 am carrier Hapkins - Geller
saw high flutter display flight 100 yds
SW of house.

3 Sept. 9:58 am a large one down from cedar
to roof, then to line 5' from house saw me
peered about then flew to end of a N. horizontal
limb in cedar $\frac{3}{4}$ up, continues to crane neck.

10:02 sailed down from cedar to N - the
ash tree next door - can't see. 10:03 back
up in cedar 4' closer to trunk than before - same
branch 10:04 back to line 3' from house
then to ledge & after much peering at me
down to feed 10:07 up to roof, 30 sec. back
down, looks like some bird-fuge
— then flew off thru bottom part of cedar
to the S.

22 Sept 10:17 am one flew from SE fairly
low — from top of near cedar —?

28 Sept 11:50 am big one in with doves & a
scrub jay — saw me!

4 Oct 8:25 am one low W-E, 9:17 am one high
in NW elm briefly; 2 doves feeding at landing

பலகை - மீட்டிங் ரூம் மெம்பர்ஸ் பிளஸ்
பெர்சனல் டிஜிட்டல் கலெக்டர்
கலெக்டர்

Quistman
1989-90

Columba fasciata

9

3 Nov. ld route st. Berkeley, Alameda Co., Calif.
7:20 am one flew into upper part of NW
elms among the daves.

8 Nov. 4:05 pm one saw on returning 13
M. daves & two hand-tails on roof-
waiting to be fed.

11 Nov about 10 in broad line ^S to ^N medium
height. 3:45 pm 2 flew into top of near
cedar where daves in feeding. Then they flew
down to roof, then ledge then to feed
with a two-bee.

15 Nov one in with daves at 3:45

29 Nov 3:20 one in with 12+ daves & Ex Sp.
I think there was another one about - ^{on} roof.

5 Dec clear 3:47 pm one feeding with daves

11 Dec 3:10 pm one on horizontal limb of NW elm

50' up & daves coming into roof, & down to feed
its preening. The traffic doesn't bother it.

3:13 flew to roof slow heavy flight, tail fully
spread. 17 daves feeding 3:15 it came into
ledge & scared off daves.

23 Dec 9:43 am clear questionable I.D. - 9

high & to N. some kind of pigeon, large
no white under wing. Direct flight

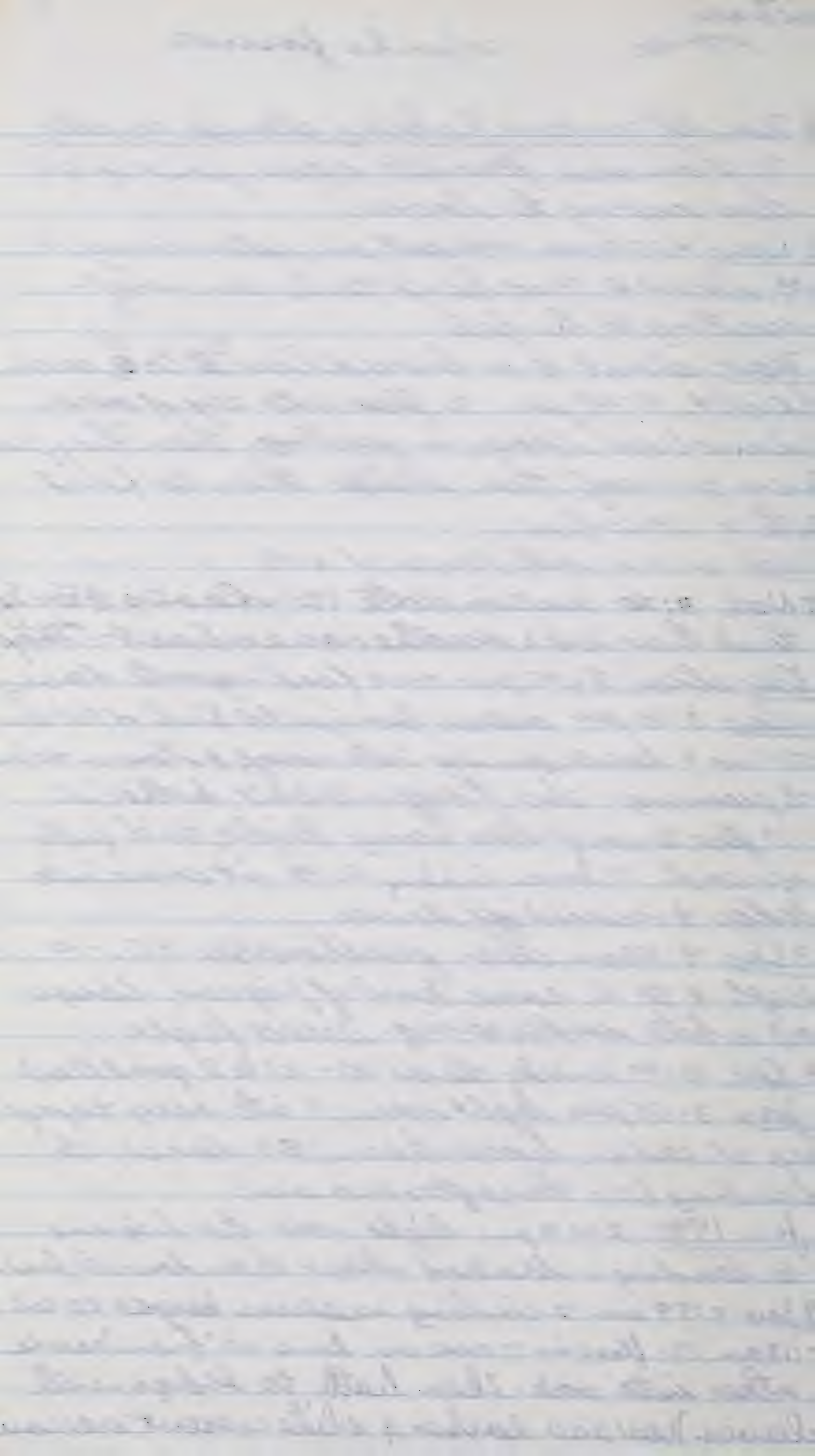
28 Dec 10:43 windy clear 10 - W to E good flock

1 Jan 3:55 pm light rain, 1 into very top of
up st. cedar. have been 8+ daves, etc
feeding here this afternoon.

8 Jan 1990 2:08 pm light rain the big one
to landing - looked about then down to feed.

9 Jan 8:59 am 2 circling medium height to W.

9:13 am 2 flew in - one on line 10' from house
& other into oak. Then both to ledge with
daves. New one darker & white crescent narrow



Muskmann
1970

Columba fasciata

10

9 Jan., del Norte St., Berkeley, Alameda Co., Calif.

9:17 both in oak on 8" limb under canopy
put food out. 3:25 pm clear \pm ; 2 big ones
came in to feed with 10+ doves, both had
wide white crescents! rather shy - they all
flew off - 2 low to N - into a oak? another
in near cedar - are there 3?

10 Jan 8:30 am cloudy - windy; 3 into top
of near cedar from NW,

13 Jan 2:02 pm moderate rain flock of 15 \pm
low from NW overhead. 2:45 very light rain
flock of 20+150 yds to W fairly low

15 Jan 8 am 3 flew down from near cedar
to feed 2 with broad crescents; about
20 doves in earlier, not now.

16 Jan 9:30 am one on N ledge & down
- several doves. 7 flew W. Then far 45 m
+ perched in top area of W elm! 11 am
 \pm , 4 flew out of W to E in open flock
fairly low. 11:32 am still 6' from top of W
elm on 1/2" branch. 12:56 pm - still same
branch. 2:01 looked up to see one in
top NW elm. 2:09 one flew in to line 8'
from house (J?) then joined by another
8" away, then another one which is a bit
slimmer & browner - all this time
the one in W elm in place. They watched
me closely about 15'. One at 2:11 flew
up into cedar. Other 2 down then up
to big branches in oak under the canopy
all this after doves first come in.
2:45 pm 3 in feeding with 10+ doves.
They are huge this class & their body
confirmation & movements are parrot like.

Christman
1990

Columba fasciata

11

- 20 Jan., Del Norte St., Berkeley, Alameda Co. CA
10:30 am one flew down (?) from
near cedar) to mid section of NW elm
— one was in feeding about 7:45 am
this am. 10:35 am 2 in top of NW elm briefly
— flew S. 10:44 2 landed a foot apart
on line 6' from oak & 18' from house
— pecking about — very similar in
appearance — perhaps one larger &
with a perceptibly wider crescent
then flew into lower part of NW elm.
4:pm. old Grove / Alameda & Napkins Ave.
— disjoint flock of over 30 handbills
flying to SE well over the new house
Elms on either side of Napkins Ave.
21 Jan 9:30 am one in feeding, flew off, shy.
22 Jan 12:20 a broad robin flock to NW 100
yds to W, low with 2 B-t.; then 2 low to
NE. 12:53 one descending from NE to trees
across street to SW.
25 Jan 10:24 am flock of $30 \pm$ low from SW
over house & near cedar.
26 Jan 8:30 am flock of $25 \pm$ low over the
cider when I was going out for breakfast
1:47 pm one on line 5' from oak; flew
low to S, then up into under canopy area
of oak — can't see.
27 Jan 9 am flock of $30 \pm$ $\frac{1}{4}$ mi. W of house
with robins & waxwings. 9:15 am 1 feeding
with doves on landing. It flew away
when it saw me — but getting tamer.
It is dark & dull with thin crescent. 4:23
pm clear & circling high — W. to overhead.
4:25 2 low from S to NW.

Christman
1990

Columba fasciata

12

28 Jan. del Norte St., Berkeley, Alameda Co., Calif.
at 8 am one calling near in oak or Eugenia.
"Puck-you", repeated.

30 Jan 9:30 am flock of 12 W to NE rather
high - flight different from C. livia.
9:58 am one in feeding with same doves -
it is large, heavy dull, dark with thin
white crescent. Then suddenly 4 more
flew in near 3-4' from them. one was
rougher in feathering & very dull brown
with very thin crescent. Now flying roof
& up into near cedar. The one
watched perched mile to Miller.

10:10 a flock of 40-50 circling & wheeling
medium height to NW - slow sedate
& direct flight. No flocks appear after.
* a storm comes thru. 1/3" fell last
night. 4:17 - 7 flew low over house to W
one split off & circled to N.

31 Jan 8:08 am one in with doves feeding
flew, near 5' from top of W elm on 1/2"
branch.

3 Feb 8:10 5 circling overhead. 9:20 3
feeding scared off by Fox Sq. 10:32 am
a flock, low, from W, about 12+ to E.

7 Feb 9 am 7, medium height out of NW
on new broad front to SE.

15 Feb 8:10 am one on landing when d
came in - 1 or 2 central tail feathers
missing. 4:38 pm flock from NW low over
house, at least ten. 5:15 10 over again.

16 Feb 10:41 am moderate rain & wind. 2 flew
into NW corner of ledge, then down to feed under
eaves. one missing tail f. & upper wing.

Christman
1990

Columba fasciata

13

- 16 Feb., del Norte st., Berkeley, Alameda Co. 4
10:55 2 flew into near cedar.
- 17 Feb 10:09 am 4 in feeding, between
shavers.
- 25 Feb 4:21 pm one in with 3 doves & Fox Sp.
- 26 Feb 1:10 pm one flew down from
cedar to roof. minute later down to
feed - flew off at 1:21 pm. Big, broad chest
- 27 Feb 8:23 am one flew up into an elm up
street, 5. side, 60' up, then to landing & to
feed. very cautious. 9:50 am one flew low
from S to another part of same tree, 25 ±'
from where it was previously & walked
about on a 4" branch - almost horizontal
- 5:30 pm 2 in near cedar; to feed? (in back).
- 28 Feb 9:40 am fog one into top near cedar
& into feed highly. Another low to SW.
So is there a local pair? 11:29 am fog
one in top of up st. cedar. 11:59 flew. 2:06
pm again 1 from S up into elm (W. side) 70'
up; flew farther into tree. 4:34 pm doves in
& pr. caunting then 3 flew down - 1 landing
1 wire, another Pittos? near
- 1 Mar 9:14 am cloudy 2 sailed into top Cedar
1:24 pm one from S into another elm 65' up
3:01 same but different spot. 4:35, 1 feeding
- it flew up, then low into mid section 2nd elm
- 2 Mar 8:40 am 2 times this a.m. one
flew up into 2nd elm across st.,
different branches - horizontal 2-4"
12:14 pm - 2 to NW ledge, doves⁽⁶⁾, in feeding
1:38 pm 1 flew out of 2nd W elm, to S & down.
- 3 Mar 9:07 am 1 flew down⁵ from 2nd elm -
1:20 pm 2 in to feed from near cedar

Christman
1990

Columba fasciata

14.

- 3 Mar. del Norte St. Berkeley. Alameda Co. calif
4:29 pm 1 frame up into 3rd elm up to 60' or 50'.
4 Mar 1:10 pm after rain stopped one in briefly
5 Mar 8:09 am first 1 flew down from near cedar to 3rd elm up 50', then 3 more landed 60' up. Then in 1 minute 2 flew S.
8:22 am. one flew down to S. what's there?
8:23 2 flew up into elm again. then high to S.
4:26 pm sunny - 1 with doves feeding, spoked!
6 Mar. 7 am a new individual in feeding - feathering roughed up, thin as a uniform gray-brown - no color, no crescent on neck - a juv.! doves in.
8:48 am 2 in a broad fixed wing circle from S descended into near cedar.
4:03 pm 2 into feed.
7 Mar 4:39 pm about 8 flew saw me flew S.
4:31 about 5 feeding. + same doves
5:08 pm 2 flew near cedar - sailed in fact, to same general area - w part of 3rd elm up 55 on other side. 4:26 pm
9 Mar 3 swooped down from high - cedar
10 Mar. 10:46 am 'was in top of NW elm; it flew in, then another for a min. then both to NW elm both ads. white crescents - identical.
now - 2 perhaps 3 in feeding. 3:47 pm 2 12' apart in top of NW elm. 3:48 now 24" apart on 1/4" limbs tossed by a breeze. 4:30 one on wire with 10 doves, etc. feeding. it is ruffling rear neck feathers 4:37 now 2 in top SW elm 11' apart on small branches.
5:40 2 upst in elm, 60' up, 8' apart, S side. No, there is another pair a bit to side!
11 Mar 3 in at 6:30 am very shy.

Christman
1990

Columba fasciata

15

12 Mar., del Norte St., Berkeley, Alameda Co., CA

4:13 one in with few larks - head-tail wing beats are loud - a deep "swoosh".

dances have a high pitch whistle

13 Mar. 7 am 5 in feeding 8:11 am 1 briefly

on thin limb in NW elm. 3:56 pm 4 flew

into feed. There is a very slight difference in conformation as to width of shoulders.

They are now 5' away - deep cadmium yellow bill & feet, fleshy light red eye ring. Can't make out iris color. Feed peacefully with mourning doves & finches.

14 Mar. 8:47 one appeared 1 flew from S into up 2nd elm where placem light - a tree that has not been trimmed. 8:53 it flew to cedar:50 now walking along near horizontal limb - 2" diam. under canopy in middle of dark tree - is this nest site examining?

8:56 another short flight under canopy - 7'

9:01 it flew off, then returned to cedar & then hopped into oak 9:24 one flew from SW up into

cedar. 11:32 am 1 hunched up on horizontal limb in 3rd elm up st. The amazing thing is

that 3 men are hammering on a roof 30' ± from this bird! synchronization? 12:40 pm

was gone for awhile, now flew back, as a soffer.

12:56 still there. 1:16 not there.

15 Mar 8:10 am 2 into feed, 30 sec. apart. 8:21

gone - they ate all of the milo & three went 6:40 am

25/12/19

Christman
1990

Columba fasciata

16

15 Mar. ~~La Jolla St. Berkeley, Alameda Co., Calif.~~

4:25 pm 2 flew in to ~~near~~ cedar, then one flew to elm up st - almost same spot as before. 4:39 pm 2 have been in same one? very skeptical cautious but hungry. 4:46 1 flew to cedar from NW slow deliberate flight.

16 Mar 9:35 am one on horizontal branch (2" d) 15' from top of W elm. One from house up to roost 5 minutes ago from N. 1:36 pm 1 very seen - one in top up st. cedar. 1:56 flew down & dived to top of near cedar, but mid-flight hesitated & gave a brief quivering wing display as it was gliding. 3:22 pm 2 in feeding & put out chicken scratch. One is slightly larger & is a rosy purple in chest. A Fox sq. charged them one to ledge ("♀") & ("♂") to wire. latter flew beside "♀" leaned over & open bill pecked her shoulder lightly. she side stepped. 4:21 doves suddenly flew in, plus finches 2 flew down to wire & 1 from house & were ^{fox} chased the sq. ♀ did long neck pump forward & back. They flew when fox sq. was 4' away. 4:28 pm 1 to elm - up st. same place! 4:31 one to line 7' from house (doves, etc feeding) then flew up into cedar to SW. New policy to Bend-tails die given them differential treatment not mowing, etc. They come in enough

The first part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the natural numbers, and then proceeds to the integers, the rational numbers, and finally the real numbers. The second part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The third part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The fourth part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The fifth part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The sixth part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The seventh part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The eighth part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The ninth part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers. The tenth part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the properties of the real numbers, and then proceeds to the study of the properties of the real numbers.

Christman
1990

17

Columba fasciata

16 Mar. 1st route St. Berkeley Alameda Co. CA
now that no special treatment they
can get used to me! They are far more
cautious than doves, but see them &
come in. 4:38 The one in up st elm flew SE
& another briefly on line when far E. in.

17 Mar. 4:26 4 feeding with same doves -
came upstairs to deck - they saw me &
didn't fly. Next to doves they are so huge!
That "hen scratch" maybe "it". They also
frequent "flair out" the green underside
of hind neck. Can't see what sex does it.
I enjoy these guys so much. So far no
"agonistic" behavior between doves &
Bend-tails; squirrels don't like them!

4:50pm 1 top up st cedar, flew down to NW corner

5:24 pm 1 back to position in up st elms, then
flew down & S. - I suspect they are using
a cypress tree as a roosting spot.

18 Mar 9:03 1 feeding with doves. 9:20 am
Fog, medium height 14 to NW, broad flock.

2 in to feed at 3 sunny

19 Mar 11:50 am one calling "Pa-oh" close
by in cedar or Eucalyptus. 4:11 pm 2 from W
over tops of trees to my roof cedar. 4:18 one
in up st elm 10' high than usual spot.

4:35 still there! even at this it's huge. 4:36 flew into dense
elm 40' away, 75' up & among dead hanging samaras
- hidden near. 4:47 flew to cedar. 4:48 1 feeding with doves

I have been thinking of you very much lately, and wondering how you are getting on. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you. I have been thinking of you very much lately, and wondering how you are getting on. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you.

Christman
1990

12

calumba fessitata

20 Mar., del Norte St. Berkeley, Alameda Co., CA
5:57 am 1 from near cedar in lang glide
into up st. elm in about same part of
tree its previously roosting or perched
in. Are they waiting for leaves to
come out on elms in order to nest?
ten years ago (\pm) a pair nested
in mid section of NW elm - before 9:15
gone.

21 Mar. 6:30 a.m. 2 feeding with doves.
flew, very cautious. 8 am one high in
NW elm & walked down st. - it flew
down & into a dense Pittos. behind
houses across st. so they maybe
roosting or nest building there; 4:19
with doves feeding, 2 on line then up
to roof. 4:28 pm 3 feeding with doves
& 2 Fox Sq - both F.F. 4:42 2 glided in
from W with alternating wings out
& folded into top of near cedar (or cedar)
22 Mar: 4:35 pm 2 in to feed. 4:53 4 feeding
23 Mar 8:10 am 2 in top cedar. 8:25 2 in
elms awhile. 9:49 am 2 times now at least
15, or 20 have come into feed - they are
extremely skiddish. just now they, as
a flock flew over low & may have landed
on roof. 11 am about 25 came & went
some tail replacement. one dull
plumage no crescent. 12:53 6 came
in one at a time, Fox Sq. appeared on then
then up to landing - some full flights, but
they came back 3 times. Juv. - ? gray, cool color
no crescent, the "green" area as lines of feathers
but no color. adults some are a deep rose.

[The following text is extremely faint and largely illegible due to the quality of the scan. It appears to be a handwritten journal entry or a list of observations. The text is organized into several paragraphs, with some lines starting with capital letters. The content seems to describe various events, possibly related to a journey or a specific project, but the details are too blurry to transcribe accurately.]

Christman
1990

Columba fasciata

19

24 Mar., La Honda St., Berkeley, Alameda Co., CA

1:04 saw a new juv. with a few green feathers - 2 juvs. together on ledge they are more cautious than adults.

1:05 all flew when Fox Sq charged them. He has got to go!

26 Mar 8:29 am. 1 flew from middle of NW elm up to near top, then it flew W. at this moment a flock of 28 from S well over tree tops to N then split esp 10 \pm to NW. 9:40 1 over house to up St. Elms near usual spot.

27 Mar 4:26 pm first today 4-50' above trees from N. roofer scared them off.

28 Mar 4 flew by earlier & flew thru a flock of waxwings. They are trimming the up street elms - rather severely & have taken out the sides of branches the band-tails have used.

29 Mar 8:55 am 2 flew into upper 3/4 of my cedar on 2-3" branches 4-6' from trunk. Then down to feed. Almost immediately many more in to feed. Several were dull color, no white crescent or green & rather shabby feathering. The tree trimmer started to make noise & 13 or 14 flew back into cedar. Interesting note: my roofer left his AL ladder & shingle paper stuck about these new articles didn't deter pigeons - they landed on ladder - the ? juvs. seemed most cautious - were on the power line. Adults fed. 4:48 one on line, ad. 5' from house. light color.

Christman
1990

20

Columba fasciata

29 Mar. ~~Alameda St., Berkeley, Alameda Co., CA~~
4:30 it flew to roof, dove flew in look
below one already in, then another to
line - darker more violet-gray than
former, also a Fox sp. feeding. So 3
feeding the first in is ragged - molt
with a very thin crescent - gray down
vs brownish (same value) so old feathers
are even brown - no distinct band
discernable on tail as others - band
is just posterior of longest upper
tail coverts.

30 Mar. 6 ± all light; fog, one called "Puk-
w'ho" 4 times. 8:50 4 in to feed then more

Then all flew back to cedar - 12 of them
3 Apr 11:50 am 1, maybe 2, in to feed, getting ^{use} to me.

4 Apr 8:43 am 1/2 + clouds, 4 circling overhead.

9:18 am 1 from cedar low overhead, then flew to
top of NW elm on a 1/8 + " branch. another

flew w. it flew back to cedar. 10:15 2
in briefly to ledge, flew back to cedar then
one glided down to crab in 405 yard.

10:21 back in & fed (2) adults. 10:22 4 just flew

11:50 a new one in to feed - dull gray-brown
hardly any crescent; only a few green feathers
at back of neck; then on line an adult
dull with ragged crescent & green f.

They clammer about on wires

etc. much better than m. doves

who just fly. 11:54 abruptly 3 flew with

heavy wing beats - touché in calling

'cheeb' call, not the alarm note,

12:06 - 6 rather high to NW.

5 Apr 8:37 an entire flock in feeding

October 1900

The first of the month was a very fine day, with a light breeze from the west. The temperature was in the 60's and 70's. The wind died away in the evening, and the moon came out. The night was very quiet, and the stars were very bright. The moon was in the 3rd quarter, and was about 1/2 full. The tide was in, and the water was very calm. The fish were very plentiful, and the birds were very noisy. The weather was very pleasant, and the day was very successful.

The second of the month was a very fine day, with a light breeze from the west. The temperature was in the 60's and 70's. The wind died away in the evening, and the moon came out. The night was very quiet, and the stars were very bright. The moon was in the 3rd quarter, and was about 1/2 full. The tide was in, and the water was very calm. The fish were very plentiful, and the birds were very noisy. The weather was very pleasant, and the day was very successful.

The third of the month was a very fine day, with a light breeze from the west. The temperature was in the 60's and 70's. The wind died away in the evening, and the moon came out. The night was very quiet, and the stars were very bright. The moon was in the 3rd quarter, and was about 1/2 full. The tide was in, and the water was very calm. The fish were very plentiful, and the birds were very noisy. The weather was very pleasant, and the day was very successful.

Mishaw
1990

21

Columba fasciata

5 Apr., ~~old route st.~~ Berkeley, Alameda Co., Calif.
(cont) about 18. all show signs
of heavy contour feathers, most
especially the really drab colored
ones with little neck coloration
which I take to be juvs. Few have
the rich violet breast coloration.
all flew off at once. Only a juv.
has missing tail feathers. Flocks
down to feed at 9 am. 10:48 one on
branch high in W. elm. another flew
down from cedar to it - it glided
down to perch on 3" branch in 2nd
elm. Then one glided down from
cedar to N (neighbors ash - ?). in 30
+ sec. the 2nd bird glided in same
direction as 2nd bird. 10:51 one from N
to line 6' from house followed by 2nd
bird 8" apart one larger than other
- both flew up to cedar - 10:56 one flew
steeply up from near N to cedar. 50 still
3 about 11 am 1 on horizontal cedar
branch 12' + from main trunk but among
the needles - fairly unusual they prefer
bare branches nearer trunk 11:02 flew E.
11:28 am flock back in - it sounds like rain
their pecking. must be 18+. 11:35 They flew
up into cedar - a Stellar J. came in then
14 flew down. Spashed again. 6:30
one in squirrel trap - banded Red
Wing there were at least 15 feeding
& one in trap!

6 Apr. 1 in heavy malt in about 9 am. 1:50 pm
- jag, at least 12 in top of near cedar.

Journal of the

The first of the month of January 1874 was a day of great interest to the people of this city. The morning was clear and bright, and the sun shined upon the snow-covered roofs of the houses. The people were all dressed in their winter clothing, and many of them were out walking in the parks and on the streets. The children were playing in the snow, and the dogs were running and jumping about. The people were all very happy, and they were all enjoying the day. The day was a very pleasant one, and it was a day of great interest to the people of this city. The people were all very happy, and they were all enjoying the day. The day was a very pleasant one, and it was a day of great interest to the people of this city.

Misthuan
1990

22.

Columba fasciata

6 Apr., del Norte St., Berkeley, Alameda Co., CA

3:56 pm fog, light breeze 2 & 1 from NW
the one descended - to cedar? fairly high.
4:17 Dove on line 5' from house.

7 Apr. at 8 am when I left the house
a flock of 26 flew from high in cedar
circled as they circled so far this
year have seen no display flights.

9:16 up in cedar & pigeon feathers are
falling. when I came back from Tilden
(delivered Fox sq) there were 6± in top of
cedar 11:26 am a Stellar J came in to
feed & about ten immediately
flew down - sounds like rain. The
majority are in molt. Some beautiful
plumage. 11:28 all flew - about 20!
3:59 2 doves in to feed, the conservative
band tails now come in! 5+. One real way
are in heavy molt - looks like it went
thru 2-dry cycles, a juv.? Six in.

8 Apr 10:18 am all was quiet when a
Stellar J. appeared on ledge & hopped
down to feed. immediately band-
tails started flying down from cedar
in 2:15 & 3:15 over 2 minutes until 3:1
arrived to feed for total of 3 1/2 - 4 minutes
when they took flight! Here as yester-
day they didn't come down until
the J appeared! 5:07 6 circling overhead,
2 to W.

9 Apr 8:41 am flock in top cedar - 15+.

10 Apr 8:36 am none so far. 4:16 pm another
Stellar J came in followed by one Band-tail
sparked flew to cedar.

Mistman
1990

23

Columba fasciata

11 Apr. del Norte St., Berkeley, Alameda Co. Calif.
8:36 am. no evidence until I
threw out feed when about 8 flew
from top of cedar. 11:28 am 7 came
down to feed. they are fed. the coarse
"chicken scratch" 3:16 a stellar J. came
in to feed & was elsewhere when I
returned 8-10 feeding - very spunky
- flew back to cedar.

12 Apr. 3 pm 1 on line for 2 minutes.

13 Apr. 8:12 am 13+ flew NW from cedar (?).
8:24 am 1 high in NW elm. 8:56-2 from
cedar to NW. 11:51 am 4 sailed in to cedar in
dead branch area.

14 Apr. 8 am 9 in NW elm & flew more in top
of cedar. 10:30 6 on line, spaked, flew
up into cedar. so far this spring I have
seen no display flights.

15 Apr. 8:43 am at least have been flying
about low & in cedar 25' away - a stellar
J. scared them from feeding.

16 Apr. 9:12 am 2 female J's in feeding.
Then 10+ band-tails flew down & 1
got in Fox sq. trap - released but all
flew back to cedar. Band-tails are very
nervous birds - interesting - they seem
to wait until J's (both species) come
in before they do move - a recent
phenomena. They seem not to come
in when towhees & house finches are feed-
ing. a band-tail primary wing feather
on porch this a.m. - further evidence of
molt. Is this early or late? still no
display flights. Are they going to pair up?

Main body of handwritten text, appearing as a list or series of entries. The text is mirrored and illegible due to the image quality.

Christman
1990

24

calumna fasciata

16 Apr., del Norte St., Berkeley, Alameda Co., Calif.
4:10 on ledge, Fox Sq. feeding + 2 doves
its in heavy molt - dull brownish
plumage, green neck & crescent tho
very ragged. 4:22 another to roof - missing
some central tail feathers. 4:28 another - smaller,
shabbier, browner. Oh, ! caught 2 in sq.
trap - released immediately - this am.
causians but stupid. 4:34 2 feeding +
a big one with rasy breast no molt. flew
others about + 2 + doves.

17 Apr. 9:30 am a dove cast 1 in to line briefly
with doves & N finches feeding. 9:54 am
5 feeding (~~was~~ 1 dove) 2 in full ad. plumage
with no molt largest. 2 in general
molt. 1 ad. — six flew abruptly when
2 doves flew over.

18 Apr. 8:45 1 dove, Fox Sq. feeding 2, 1 in, 1 large
but dull plumage, molting. Now about 8
in & out. 9:29 a flock of 15 ± from W high
& overhead seemed to descend to cedar.
12:58 pm fog. Stellar J came, almost im-
mediately one to roof, then 4 to landing, then
to seeds - ind. down from roof. so 5.
two were not molting others were.

19 Apr. 8:43 am foggy, 1 flew to roof & back
to cedar. central tail feather replacement.
10:31 am 3 in briefly flew N, low. 2:34
pm 4 in 1 large ad not molting; 2 molting
(juvs?) dull coloration, only hint of green
on back of neck & thin ragged crescent
other one? out of view.

21 Apr. when I left house at 7:55 am 25+
flew from top of cedar. Many back by 8:50

Christman
1990

25

Columba fasciata

21 Apr., del Norte St., Berkeley, Alameda Co., CA
9:30 am fog, about 18 in to feed until
neighbors scared them back

22 Apr. about 7 am about 25 in, again
sounded like rain at their pecking. 9:51
about 12 feeding of these & seen to be
in complete new plumage, 1 paler than
rest - a slate gray, rest dark & molting
One big one scratched head under wing
direct.

23 Apr 10:19 am 5 in with 2 doves. They
have been down since this am &
about 9:30 am 15 flew from top of
cedar. 6:39 landed one - white Right

25 Apr yesterday & today have put out
less food to starve Fox Sp. into trap
- hopefully. This has discouraged
pigeons.

26 Apr. 8 a.m. started up stairs when a
sunk j. squawked & about 12 b-to flew
from landing. First time since sunset
6:30 pm 4 flew from top of cedar, 7 near porch.

27 Apr several in early. 10:47 one flew
down but shied to N - a Stellar J. in
feeding!

28 Apr 7:45 am about 6 in top NW elm &
a few more in cedar. 8 to landing
about 5:30 pm.

29 Apr 7 am about 25 feeding

30 Apr 8:15 am about 5 more feeding
when I came back from breakfast -
flew off. 8:36 5 came in all ad. j. sizes
although one had pin-feathers on
sarehead.

My dear Sir,
I have the pleasure to acknowledge the receipt of your letter of the 14th inst. in relation to the matter of the ...
and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.
I am, Sir, very respectfully,
Your obedient servant,
[Signature]

I am, Sir, very respectfully,
Your obedient servant,
[Signature]

I am, Sir, very respectfully,
Your obedient servant,
[Signature]

I am, Sir, very respectfully,
Your obedient servant,
[Signature]

I am, Sir, very respectfully,
Your obedient servant,
[Signature]

Wistman
1990

Columba fasciata

26

1 May, del Norte St. Berkeley, Alameda Co., CA.
6:30 about 10+ into feed. Until 9:30+
afew high in cedar, some flew off in 2's
& 3's 6:42 about 10 feeding shy, flighty
the slightly more tolerant of me. They are
hungry.

3 May 8:52 am broad flock of 15-20 to N
at medium height. Then about 10 turned
& seemed to alight in near cedar. 11:50 am
3 flew down from cedar to feed til 11:57 am
no malt. good plumage - slightly tamer.

4 May 10:25 a.m. 8-10 in feeding very briefly -
very sparsely. 1 pm 10 ± came in briefly.
Several mottled primaries & tail feathers
under cedar.

5 May 11:12 am now for third time 10+
came in this am. They are very
frighty & fly off, en masse, quite
suddenly for no apparent reason.

5:25 pm 8 in feeding are the remaining millet.

8 May 6:47 am 15+ feeding. 9:35 15 ± flew
in. Most show at least some contour
feather molt & missing tail feathers.
Few have fully developed white
crescents.

9 May feeding 6:30, 7, 8:02 - one very
obvious juv. with pale edges to wing
coverts. Well over 15. Most are in some
stage of molt, especially tail, 1 with 2"
tail feathers! Also among adults some
are very dull others rich rufous
- brown - gray. 4:06 1 in feeding. 6:40 about
15+ feeding with afew doves.

10 May 8:18 am 2 glided in to cedar fast.

Christman
1990

27

Columba fasciata

10 May, del Norte St., Berkeley, Alameda Co. CA
7 am about 15+ in feeding.

12 May - 7:15 am & 8:40 20+ in to feed
much variation in color from
wax, dull lightish under to a
rich, mid-brown slate gray - still
signs of molt but new well developed
white crescents & irid. green. A grand
view of this shy species - 20+ at 6'.
They are still flighty, tho slightly
more tolerant of me. 5+ came in off
& on thru out day.

13 May a number in to feed about 6 am.

14 May 9:17 am & feeding with 1 M. dove.
a bit tamer it seems. They prefer
the 'chicken scratch' but not in the
"wild bird seed" mix, but will pick
up millet.

15 May 9:40 am 15+ in; very spastic!

16 May same in early am & 2 or 2 in mid-
day 4:38 several flying roof to cedar.

17 May 9:57 am fog - 11 in to feed, 1 dove.

19 May 10:30 am 3 in briefly.

20 May 12:09 about 25 feeding 12:26 about
10 feeding. One tried 4 times to land
on the D-4 feeder - of course when
all flew abruptly. more than 20. 1:53 pm

1 juv. small molting dull brown & a steel
gray, lots of iridescence - scales. gray
iris, but red eye lids. yellow bill & feet.

21 May 6 am ± a few "who-o" calls, after in
top of cedar at 6:55 am.

22 May 3:25 about 12+ in feeding more
evidence of molt

Main body of handwritten text, consisting of multiple lines of cursive script.

Christman
1990

28

Columba fasciata

25 May, del Norte St., Berkeley, Alameda Co., CA
same in about 6 am. 11:10 am 1 in with
2 doves. Not so many lately. back at
11:30 am - a new mated primary on landing
6:58 3 in to feed, another, got spooked - back
up to cedar. 6:59 - 6 flew back to cedar.

27 May flew in at 6:30 am. 8:58 mated pair in
about 15 blue faced cedar. 8:59 one on line -
they are hungry. 9:06 10+ feeding. Then ♂
on landing, neck swollen & hunched down
no call & could hear; attempted to mount
& copulate. She moved off. 9:09 2 on limb
of New elm 15' from to - one swollen neck
& "co-o" call. Were 1' apart now 5'. 9:13 2
more calls. Saw 5 near as at top of New elm
& being tossed about by a few stiff breezes
can see 16 in New elm at 9:34 rain is dimin-
ishing. 10:08 flew flying about some tail
malt in near 11:33 am no rain about 10+
have been coming in to feed & being frightened
off by Fox Sq. Many are mating, a few huge
beautiful plumaged ads. Also 1 which has
no malt & a dull uniform brown-slate
gray, well turned out - no crescent or
iridescent green, although it is evident
as lines of "scales" on the gray feathers.
are these the young of last year or
young of this year?

29 May 9:15 several flying about down
9:35 am 9 in feeding. 1 remained all hunched
up - is it sick - flew off slowly. 10:59 a bunch
in again to feed - came down when scrub
jay was in.

30 May about 6 or 7 in several times in sun

Christman
1990

Caluska fasciata

29

4 June, ~~at~~ ~~North St.~~ Berkeley, Alameda Co.
11:19 am 1 flew down, circled & landed to
the cedar.

5 June 9:15 am one in briefly, shy!
12:51 pm another one in (? ♀) old & new
feathering very evident.

6 June 8:11 am 4 feeding.

7 June 6:47 am 1 came in with stellar J.

9 June 10:22 am 1 in to feed, an adult. Shy

12 June 8:42 am 1 in very briefly - saw
me, with a few darts. It appears that the
right foot is permanently flexed! 11:50
am two came down to ledge from
near cedar, but too shy to feed. One
was high, gray dorsum & purplish
venter - a male. The other, as the flexed
right foot & huddles about - smaller & more
of a dark brown - a ♀. Then both flew
off. 12:10 pm 4 flushed - were feeding.

16 June 10:02 am 3 in feeding. Then 5.

18 June 10:12 am 1 big ad. in, entirely old
plumage, no molt, feeds, etc. with bill open
and feathers on face head dark & stuck
together - wet or some kind of gum on it.

19 June 8:59 am 2 in to feed with 4 darts.

Both birds have "wet" foreheads.

22 June 11:38 am Fg. 2 resting on line 7'
from house. Both ad, no obvious molt and
both have "wet" foreheads are sleeping?
11:44 am both flew up into cedar when Fg. started
down the line.

25 June 9:50 am, 2 non molting ads. in and
no shiny foreheads

26 June 8:30 am 2 ad. in feeding.

1990
mustum



Iris is actually a
medium to light
brown, perhaps
hazel. The red
eye ring obscures
the color.

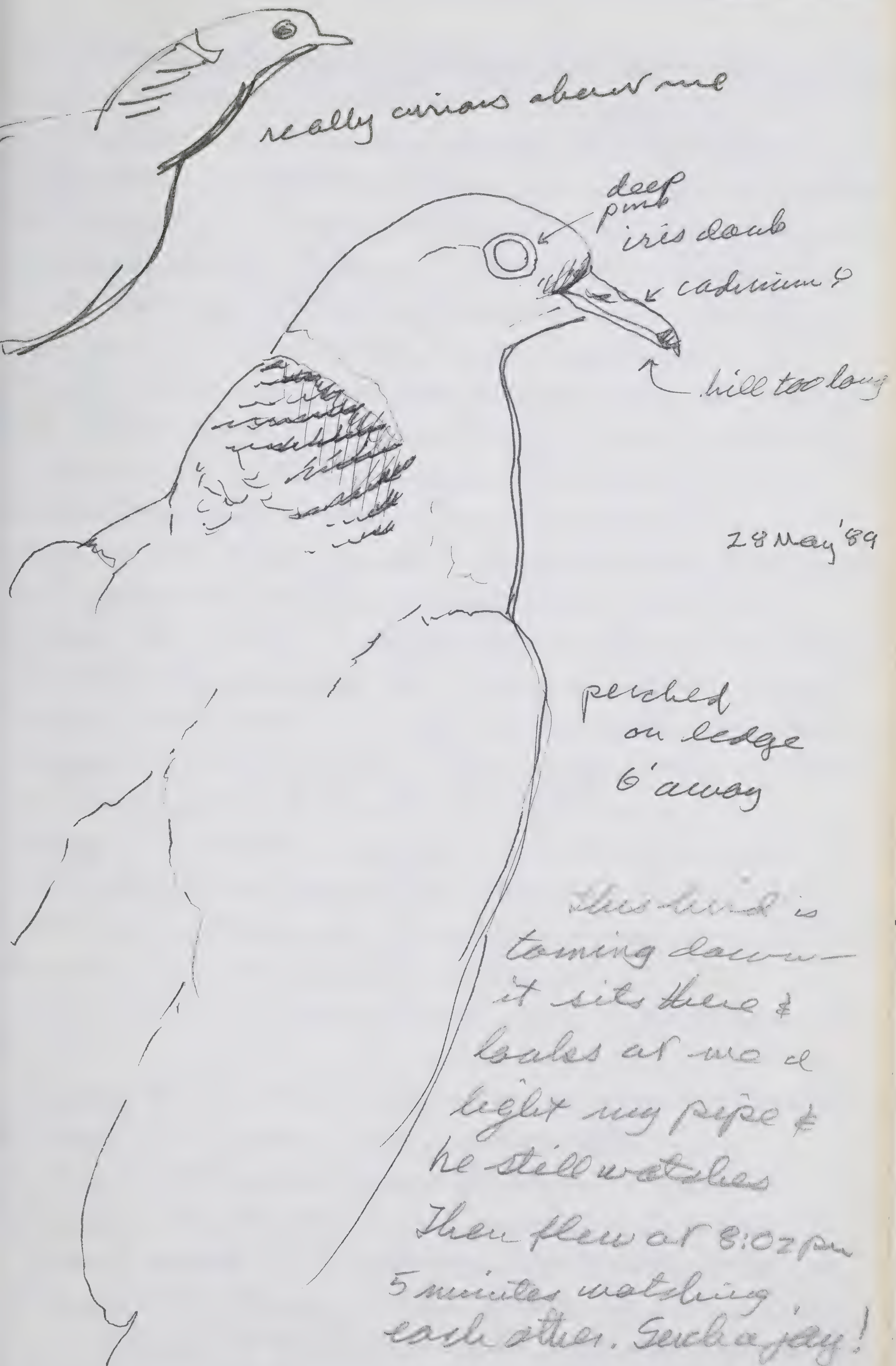


I "see" the
red eye ring
near the iris



♂ highest

Columba
fasciata



really curious about me

deep
pink

iris dark

cadmium

bill too long

28 May '89

perched
on ledge
6' away

This bird is
turning down -
it sits there &
looks at me &
light my pipe &
he still watches
Then flew at 8:02 pm
5 minutes watching
each other. Such a jay!

Christman
1990

30

Columba farrus

30 June, del Norte St., Berkeley, Alameda Co., Calif.
one who-o call at 7:30 & one into
feed at 7:45 pm (no nest found) &
this one not as shy as most, but still
flew off if I moved about in front
of window. 11:18 am 1 feeding with dove
- sudden flight to high in cedar - Fat sq.!!

1 July 1 in at 7:39 & 9 am. with doves.

17 July 9:35 am 1 in top of up st cedar - first
I've seen since above! why? 9:57 still there
- the bulk of this bird at this distance is
substantial - most hawks which have
appeared there were substantially smaller
9:57 gone & replaced briefly by a robin.

18 July 10:19 am 1 from N descending in folded,
partially, wings to S down by tunnel.

24 July 6:44 am 1 in to feed with few doves

26 July 6:36 pm 2 or 3 feeding with 12 doves

6:53 pm fog big & in again.

5 Aug 9:28 am 2 from N came sailing in
to cedar just over the oak on fixed wings.

9:49 am 1 preening top of up st. cedar. 9:58 ^{7 flew} SE.

10:02 "Coo-oh" calls close in.

7 Aug 9:55-10 am cloudy 2 in & flew up into
cedar.

19 Aug 6:15 am 2 in, minor amt of cooing.

25 Aug 6:45 am 1 in, very shy

30 Aug 6:54 am 1 in with some doves.

6 Sept 8:50 am 1 on ledge down to
feed with 4 ± doves, not as shy as most.

27 Sept 9:48 am 1 flew down (from cedar?)
in an arc to W, then S into cypress down the
street. good look.

28 Sept 9:38 am 2 circled over oak & about

The first of the month was a very fine day, and the weather was very pleasant. We went for a walk in the park, and saw many beautiful flowers. The children were very happy, and played for hours. We also had a picnic under a big tree. The food was very good, and we all enjoyed it. The day was very pleasant, and we all had a good time. We went home in the evening, and the children were very tired. They went to bed early, and slept very soundly. The next day was also a very fine day, and the weather was very pleasant. We went for a walk in the park, and saw many beautiful flowers. The children were very happy, and played for hours. We also had a picnic under a big tree. The food was very good, and we all enjoyed it. The day was very pleasant, and we all had a good time. We went home in the evening, and the children were very tired. They went to bed early, and slept very soundly.

31

6 Oct 7:15 am, heard of "Pah-coo-o" calls
one in feeding with doves 9 am. 9:50 2
in to feed briefly with doves & towhees
who were in first. 3:20 pm 2 down to ledge
from cedar - about same size - 1 brighter
plumage than duller other. Then another flew off.

Main body of handwritten text, consisting of multiple lines of cursive script. The text is mostly illegible due to fading and blurring.

Christman
1990

32

Columba fasciata

- 11 Oct, ~~del Norte St., Berkeley, Alameda Co., California~~
6:22 ~~Surge~~ ^{just above horizon} = 1 to top of up or
cedar. 6:33 flew S, 100 yds then W.
15 Oct 9:53 am 2 low over oak from SW
arced to cedar - ?
16 Oct 9:29 am 1 in high from NW, seeming
to glide over, quivered wings slightly.
25 Oct 3:58 pm 1 in top of up st cedar. 4:11 then ?
14 Nov 2:39 pm 1 in top up st cedar. a few
min. later I walked up st. & it flew to S.
3:25 pm 4 on half folded wings, fast dec-
ending down fast, from NW to SW of me.
16 Nov 2:50 pm 2 ~~in~~ in long fast descent
from N into top of cypress - down the block
20 Nov 3:13 pm cloudy 1 top up st cedar.
14 Dec 1:34 pm sunny overcast, 1 from SE
over house low to top of up st cedar.
3:09 was out for an hr. - was gone; now
back in top of cedar & doves coming in to feed.
3:10 glide & slow flight down & S to cypresses.
15 Dec 2:43 pm variable clouds 2 in top of
up st cedar. 2:51 now 3 ? 2:58 - 2 ? flew,
then 1 slow flight to near cedar &
doves beginning to come in to feed.
17 Dec. 8:29 am 1 top up st cedar. 3:45 2
circling to NW including 1 long sailing arch;
then 1 to SE very slow flight.
18 Dec. 3:34 pm sunny, incoming cirrus 2 to-
gether to top of up st cedar from NE.
gone at 3:35; then 1 flying NW, another over
head.
19 Dec 8:30 am 1 high from NW circled in slow
flight - almost the horizontal wing flutter
display; in curve & looked briefly top up st cedar.

Handwritten title or subject line.

Main body of handwritten text, consisting of multiple lines of cursive script.

Handwritten text at the bottom of the page, possibly a signature or closing.

Mistman
1890-91

33

Columba fasciata

20 Dec., dd Trade St., Berkeley, Alameda Co., Calif.

2:39 pm dead 38°F, 1 in top up st. cedar

24 Dec. 2:22 pm 1 from E to top up st. cedar ^{highly}

26 Dec. 12:50 pm 1 over house (?) from cedar) in horizontal wing-flutter display flight, descending to low immediately another from NW into top of cedar - ? can't see.

27 Dec. somewhere about 9 am. one loud "who-who" call from near cedar!

1 Jan 91 2 circling at 10:47 am 1 low to cypress down the st.; other higher & landed in top of pine to NW. 11:01 am 5 rather low out of NW to near cedar.

4 Jan 3:29 pm hazy sun, out of W. 1 to top cedar ^{near}

5 Jan 4:34 pm hazy, 1 low (below level of the cab) S to N, rather fast.

6 Jan 7:04 pm overcast 2 flew to top of up st cedar. at about 8 am one cooed 2 times.

4:25 1 sailed S into cypress down the st & while writing the one on top disappeared.

7 Jan 10:51 am overcast 1 from middle of up st elms to top of near cedar. 11:04 am 2 flew from low south (?) cypress (?) to NW. 12:38 pm

2 into top of up st. cedar. 1:29 1 is still up there

2:22 pm 1 still there (it flew when 2 ravens flew over low out of NW - but promptly returned).

2:40 2 side by side on horizontal limb 24" from top up st cedar - as before

8 Jan 9:31 am 1 top of up st cedar; breezy

12:03 pm 2 circling over fairly low. 4:27 pm overcast 1 from N. to top up st cedar

9 Jan 3:58 pm 1 top up st cedar; fog all day

10 Jan 8:10 & 9:23 am " " " "

Christman
1991

34

Columba fasciata

10 Jan., ~~del Norte St., Berkeley, Alameda Co., CA~~
10:04 pm still up there in the rain. 10:46
while reading it flew (where?) with a
scrub 5' away 2:03 back up there again.
2:44 pm still up there.

11 Jan 9:55 1 top of up st cedar, 10:01 it
flew down steeply to N into trees? 1:49 pm
1 from S to top up st cedar. (gone by 2:39)

12 Jan 9:32 am fog, 1 top up st cedar.
? and to top near cedar from W at 9:35 am
9:50 it has flown - ? where.

14 Jan 2:40 pm clear, calm 1 from N to top of
up st cedar. gone by 2:48 in calm, clear.

16 Jan 9:23 am 1 came sailing in from S
to 24" from very top of up st cedar.
it flew at 10:28 am 50 = 65 minutes

18 Jan 8 am 2 flew to land & off when
I was outside. 2:34 pm sunny 1 top of
up st cedar - yellow feet prominent.
gone by 3:30

21 Jan 9:30 1 to top of up st cedar, flew 9:48

22 Jan 9 am when I came back 1 top
up st cedar. 9:11 has flown off.

23 Jan 9:45 clear, 1 top up st cedar. 10:18
it flew down to a tree? on Las Angeles
St. N of cedar. = 33 minutes. 10:20 1 circled
over house then off to NW - same one?

24 Jan 11:25 am 1 low over house & thru tops
of elms & landed in ? lower part of up st
cedar. This slow flight wings with shallow
horizontal arc. 1:40 pm 1 top up st cedar, then
flew S - slowly - almost the flutter display.
another in top of cedar! 2:24 1 still top of up st cedar
2:28 glided down & S to cypress - flutter display

Christman
1991

35

Columba fasciata

24 Jan., ~~del Norte St. Berkeley, Alameda Co., Cal~~
3:26 pm was out for an hr. saw 1 top up st
cedar. 4:01 it finally flew while writing.

26 Jan 9:36 am 1 in to feed - 2 doves
flew in & scared it. Back to line 8' from
house joined by another - first a dull ♀
& a larger ♂ - not as gray brown.
2:50 pm bright sun - 1 top up st cedar for awhile
(2 flew into Cypress down st. awhile ago)
3 pm it flew slowly 75 yds S then turned
& flew NW. at 1 point - at the turn when
the horizontal wings fluttered briefly 3:02
back at top up st. cedar. 4:10 11 in NW elm,
10 (+ ?) in W elm.

28 Jan 9:09 2 out of NW circled & landed
in top near cedar. 4:47 about 10 doves & 1
BT-feeding - & scared them - into cedar & W elm
4:39 1 band to feeding with 16 doves.

31 Jan 7:30 am - 2 in to feed with 3 doves
2 Feb. 11:04 slight diggle 1 in to near cedar
with folded wing, glide. 11:06 to NW elm 70' up.
it flew down, then to ledge. very cautious
now doves flying to roof from NW elm. 11:11
6 doves feeding with the pigeon. 11:14 all flew
11:33 rain stopped; 1 to NW elm near 6 doves (2)
11:44 it flew low to S. 4:15 one into feed, another

5 Feb 2:56 pm first real flutter flight over
with big circle over head.

9 Feb fog, 1 calling in cedar, 7:45 am - heard
at desk & at street level. 9:48 1 top of up st
cedar, & one on top util. pole at circle. 9:50
both flew S, low; 1 from cedar in slow flutter
dis play flight. 3:05 sunny, 1 out of W. mid height
into slow flight & beginning of flutter display

Handwritten text, likely a letter or document, written in cursive script. The text is mirrored across the page, suggesting it is bleed-through from the reverse side. The handwriting is fluid and characteristic of the 18th or 19th century. The page is numbered "28" in the top left corner.

Christman
1991

36

Columba fasciata

9 Feb., ~~del Norte St., Berkeley, Alameda Co., Calif~~
4:15 pm 1 in feeding with 10+ doves.

11 Feb 11:30 am sunny, 2 circling over at
tree top level NW & SW

12 Feb 8:44 am fog 1 to ledge near me, flew
9:54 - 2 circling low to S. 3:49 1 from S to
top of up st cedar.

14 Feb 9:06 am 1 into feed with 2 doves

9:29 1 flew from cedar to NW tree top level,

3 pm 2 flying W from near cedar to NW & W

1 circled high, brief display flutter then to
top of st cedar. 3:50 sun up, now 2 up there.

15 Feb 9:30 am overcast 2 in top up st cedar.

Then 3 flew S at tree height! 9:32 1

curved over from S forming wings then
an ~~motionless~~ wing glided to top of the up

st cedar. 9:46 flew S. 10:09 - 1 top up st cedar.

10:11 gone. 2:18 1 circling high SW - W - E

slow flight. 2:30 1 in briefly a ♀ pale breast

3:25 another 1 in, larger violet rose/darker
breast.

16 Feb 9:30 am 2 from W into top up st cedar.

9:39 1 dropped down steeply into trees on or
near Los Angeles St. - still 1 high. 9:42 it flew

4:07 circled overcast 1 in top up st cedar. 4:15 a glide
to near cedar with a very brief flutter display

4:18 1 flew down to low branch of Pittos just
over fence 25' from house, then line & to ledge

walked 5' down to feed. another flew up

from Pittos to ledge. 4:19 1 feeding 4:22 - 2 feeding

No flocks of hand tails seen this up. even 3?

4:37 pm 50% overcast, 2 in top up st cedar 8" apart

4:40 pair in cedar 1 pecking neck of other "She" moved
down branch a few", 4:41 "♂" in steep dive ^{down} across st.

Journal of the

The following is a list of the names of the persons who have been elected to the office of the President of the Association for the year 1890. The names are given in the order in which they were elected, and are arranged in alphabetical order of their surnames. The names of the persons who have been elected to the office of the President of the Association for the year 1890 are: [illegible text]

1991

37

Sunday, 8:58am / from SE to top up slopes

10 am 1 from 5 law to New 4:35 feeding ^{with} doves

18 Feb 8:28 am clear 4 flying N off to W. Then

19 Feb 8:15 am, top super, clear, blue SE.

21 Feb 8:55 am overcast, 1 from W to top

9:03 New W.

23 Feb Two calls from Marcela at 8:30 a.m.

4:29 pm sunny '2 sailed in low-fair for

24 Feb 5 per 2 in ulcerated.

27 Feb 9:27 am light rain, 2 in top up of cedar

1 Mos cloudy & windy, feeding with larvae at

3 Nov 8:22 am light rain & wind 5 or 6 feeding

9:55 am 2 in feeding ♂ first, then ♀ = 'calan

7:21 scattered clouds 2 from N sailing fast

6 Mar 8:25 am clear, 1 flew NE. 8:30 1 tap of up

sr. cedar. 4:35 / top up sr cedar, then flow

7 Mar 3 circling rather low to SW across Lr

with a flock of robins. I is dull with

1991

Columba fasciata

7 Mar, del Norte St., Berkeley, Alameda Co., Calif.
 no white crescent or green scalation
 on back of neck - I believe this was
 the "maiden" flight of a fledgling!
 belly is lighter in color than the 2 adults
 2:29 1 ad flew then the juv. to E. 1 adult
 remaining in top of cedar - it is the
 which was farther from the juv.
 9:33 the remaining ad. flew down to S
 to where nest must have been.
 8 Mar 8:27 1 top up at cedar - an adult
 9:02 still up there. 9:04 flew S & glided
 down to trees across st to SW. 9:17 am
 the juv. to ledge - uniform color no neck
 crescent or green, but the scalation
 shows at back of neck - down to
 feet. it is apparently alone Is this
 the first the first time in to feed?
 First that I've seen its legs & bill are
 pale whitish yellow. 9:22 drinking at
 puddle at S end of landing. 9:28 its
 gone! 3:19 2 from high NW, down & to SE
 4:15 pm (in lower branches of W. elm.
 4:22 juv. flew in to ledge, then down to eat
 eyes dark brown no color to eye lids -
 9 Mar 9 am 1 ad. top up at cedar, preening
 9:15 flew down to S. 4:37 the juv. came in
 N landing, then down, it was carrying
 to eat, but went down to food readily.
 10 Mar 1 top up at cedar, 2 circling low over
 head - first of day. 2:20 1 ad. on line, 1
 on ledge down to food in shallow water
 1 on line walked 5' to ledge. to feed with
 others. 2:23 another to top up at cedar.

Columba fasciata

10 Mar., del Norte St., Berkeley, Alameda Co., CA.
 2:26² still feeding, can't see well enough
 of the 2 in ~~cedar~~ as as as what. 2:28
 both flew S. One really gave me a close
 look at 6 or 7'. 2:51 pm 1 still top of cedar
 (was out awhile). No there are 2. 2:58
 both gone.

11 Mar. 8:53 am 1 ^{adult} from E to top up S cedar
 it flew off about 9:10 - at 9:40 it or another
 back in top of up S cedar - an adult. Is this
 pair which evidence indicates it pro-
 duced 1 juv. going to nest? 10:17 flew off.

12 Mar. 9:08 am has been rain, none now
 The juv. into ledge & eventually down
 to feed with 1 take her. It is very cautious
 - almost uniform dull gray plumage -
 few bits of natal down on a few
 back feathers. Of course no white
 crescent, no iridescent green on
 dorsal neck. 9:11 now 1 ad. in feeding
 also. 9:13 2 flew from landing to top
 of up S cedar. 4:32 Juv. in then Fox Sq.
 scared it away.

14 Mar. 8:15 am 1 top up S cedar - an adult.
 8:49 1 flew in low across front from S into
 Pittos to N. 8:59 flew to landing next to
 house - N. end then down into bush
 to big branch. 9:45 to N corner of
 ledge - jumped down to 1" of water, took
 1 quick drink, flew 5' to S. & started
 feeding. This is the juv. & is not as shy
 as parents - just looks at me - this, I
 believe is the 1 flying into oak, etc. 5:31 2
 ad. in to feed / windy

Christman
1991

40.

calendula fasciata

- 16 Mar., El Norte St., Berkeley, Alameda Co. cal.
4:08 overcast. 1 ad. in to landing to feed
with 6 doves. 4:35 dull overcast 1 top up st cedar
4:55 flew. 4:58 1 on ledge 6' away watched
me intently - guess a ♂ violet coloration,
feeding with same doves.
- 17 Mar 9:15 am light rain; 2 from SW to
top near cedar.
- 18 Mar 8:24 am clear, 1 from overhead to top up
st. cedar - an adult.
- 19 Mar. 8:40 am patchy clouds; 1 top up st cedar.
9:27 still up there.
- 21 Mar 9:01 am sunny 1 ad. top up st cedar.
9:42 it has flown off.
- 23 Mar 8:45 am overcast 1 top up st cedar
9:06 dropped down in a steep dive S into
trees across st. to SW - re-nesting - ? 4:27
pm 1 in to feed with 12+ doves, an adult.
- 26 Mar 11:13 am rain. 1 circling overhead
- 28 Mar 8:59 am fog. 1 just into top up st cedar.
9:33 abruptly flew steeply down & to S into
trees at El Norte Ct. It was an adult.
4 pm ± 1 dropped steeply from high to trees SW
across st.
- 29 Mar 8:29 1 top of up st cedar. gave a ^{8:42} am.
- 30 Mar 2 in to feed about 7 am. - clear.
- 31 Mar 8:59 overcast, 1 from N to top up st cedar
9 am another from law. S joined it.
- 1 Apr 8:25 3 to top up st. cedar; then 2 to
top near cedar. Heavy clouds. 8:48 it flew.
I do not recall seeing any band-tail
flocks this year, although I wait every
day I see singletons passing over.
This implies a reduced number of birds

Handwritten title or header text, likely in Urdu or Persian script.

Handwritten text in Urdu or Persian script, consisting of multiple lines of cursive writing. The text is written on a page with horizontal ruling lines. The script is dense and fills most of the page area.

Christman
1991

41

Calumba fasciata

1 Apr., del Norte St., Berkeley, Alameda Co., CA

3:32 pm 2 have been in top up st. cedar

3 Apr 2:48 first of day; 1 gliding from N
to trees S - across st. - cypress

4 Apr 7 am. 1 calling very close. 8:34 1 from
S, flew up to top up st. cedar. 4:13 1 gliding
in gracefully from NE to top of cypress to S

6 Apr 7 am 2 in top up st cedar; 1 calling

10:55 1 top of up st cedar, an adult, one call.

11 Apr about 3^{pm} 2 flew N from lawn st. law.

4:36 1 from N arches, from a fast glide
into flutter display, albeit brief & down to
trees SW across st.

13 Apr 8 am. heard 2 fly off from landing.

6:38 1 ad in, flew up into cedar, saw from

studio - back-lighting at this time is a bitch.

14 Apr 8:30 am 2 in to feed, flew off. 1 kind

back over in flutter display & landed
in top near cedar. several "co-oh" calls

7:07 2 adults in to feed briefly; flew off.

15 Apr 8:03 am clear, few chunks of fog 2 on
horizontal limb in near cedar both adults.

16 Apr 11:12 am 1 down to ~~lawn~~ ^{roof}, then
landing in front of me 7-8' - its very
shy - flew up to roof again. Its plumage
dull, not rich in color as a ♂ walks
about with tail horizontal & wings droop-
ing almost to substrate.

18 Apr. 7:45 am 1 ad. in saw me, flew up
into near cedar.

20 Apr. 9:21 am cloudy 1 was in feeding, flew ^{SW}

10:14 1 rather low gliding in forest from SW ^{low}

to top of near cedar. 11:05 1 down to ledge

in front of me briefly - ad. dull plumage - ♀

Handwritten text in a cursive script, likely a letter or a journal entry. The text is written in dark ink on aged paper. The handwriting is fluid and characteristic of the late 18th or early 19th century. The text is organized into several paragraphs, with some lines indented. The overall tone of the writing appears to be formal or semi-formal.

Mustuan
1991

42

Columba fasciata

20 Apr., del Norte St., Berkeley, Alameda Co., CA

The iridescent green feathers in an adult bird are raised several mm.

between tips of feathers. 4:20 1 calling ⁱⁿ cedar.

21 Apr. 10 am 1 in to feed, flew up into cedar.

2:17 1 briefly up in cedar.

22 Apr. 8:40 am over head - 1 in slow flight & a brief flutter display.

23 Apr. 12:04 an adult in trying to feed, its bill was agape - open more than $\frac{1}{4}$ " to ledge, saw me & flew N. It could not possibly have picked up food. 12:42 - the ad. returned - on ledge with 2 doves feeding. Its color & plumage is dull, but a big bird.

1 May 5:49 cloudy: 1 from near cedar to 8 in flutter display - disappeared.

2 May 6 pm 2 in feeding, flew to cedar.

3 May 3:20 sunny now, 1 in (?) briefly.

3:33 this bird returned & fed; then the juv. in - dove flew & three handtails flew up into cedar. They are hungry! 3:54 1 ad in bill open $\frac{1}{8}$ " & seemed to be gulping air, as indicated by throat movements - gulping in with 3 doves.

4 May 10:09 adult in to feed. Then another & seems to be molting on neck. There was a third that I didn't see well (the juv.?).

10:11 There are at least 4! Then another 5.

1:57 1 in briefly while scrub 5 in. 2:00

2 returned - again with scrub 5 in!

These guys are hungry! Both adults & no sign of nest. 3:50 again 2 ads in

briefly. 2:05 1 cedar to feed 5 May

Christman
1991

43

Columba fasciata

5 May, del Norte St., Berkeley, Maryland
cont 7 am in feeding 6:30 in feeding.

8 May 8:09 1 from SW to mid section, near
cedar.

13 May 10:44 am light rain, 1 flew down to
roof (at \pm 9:30 perhaps 2 this sp. circling
about law to SW). 10:50 am. flew down to
ledge NW corner 10' from base on line,
looking about, shy, saw me - & tried
not to move; flew up into cedar. dts a
very dull colored ad.

14 May 8:22 am 1 down to ledge & back ^{to} cedar
8:36 returned to ledge & after hesitancy went
down to feed. dull plumage. 8:45 flew off.

16 May 6:44 light rain a ♂ in to feed with doves

18 May 9:12 cloudy with land daps 2 flew from
near cedar, off to NW.

21 May 1 in briefly at 8:45 I am. no calls.

28 May 4:41 p - dull sun, some fog, 1 top up SW cedar

29 May 6 am 1 calling close in, ? top of cedar

14 June 8:15 am 1 on line; then up into cedar

15 June 7 a.m. 3 in to feed briefly; flew to cedar.

23 June Fog 7:05 - 7:10 1 feeding.

26 June 10:55 1 flew cedar to Naver trees.

26 July 7 am heard 1 fly off.

30 July 9:45 am fog. 1 from SE to top of
up SW cedar for 5 min. an adult.

3 Aug. 9:52 1 top up SW cedar - fog 4:17
1 flew in & flaired out.

4 Aug 9:45 fog, 1 top up SW cedar

5 Aug Barb Jones - MVZ reports large numbers
of band-tails Monterey to San Francisco.

8 Aug 9:38 am clearing 1 ad. to ledge
& down to feed with doves, then flew

The following is a list of the names of the members of the American Medical Association who have been elected to the office of President for the year 1917.

Dr. J. C. Brannan, of the University of Michigan, has been elected President of the American Medical Association for the year 1917. Dr. Brannan is a member of the American Medical Association since 1892 and has held the office of President of the Association for the year 1916.

Dr. J. C. Brannan, of the University of Michigan, has been elected President of the American Medical Association for the year 1917. Dr. Brannan is a member of the American Medical Association since 1892 and has held the office of President of the Association for the year 1916.

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Christman
1991

241

Columba fasciata

¹⁰
18 Aug. ~~del Norte St. Berkeley, Alameda Co. Calif.~~
~~European War, interrupted~~ 7:28 am

dear 1 flew from S, low, into rust blue
across st. for a minute then S.

26 Aug. 6:32 1 top up st cedar, mild winds & fog &
lots of doves in feeding.

27 Aug 8:46 am 2 in top up st cedar; fog.

9:15 1 glided low & slow to 1/2 up near cedar.

9:20 now 2 back in top up st cedar. Then
both flew SE low over house. 9:44 1 low from
N sailing into near cedar. 11:08 am 1 flew in
with 7 doves - feeding.

31 Aug. 2 in top up st cedar at 9:29 clearing
practically touching wings facing E &

nibbling each others necks. 9:48 they
were 6" apart for 10 min. now one on
another branch 40" away & 25" + down

9:54 There are 3 up there! all with white crescents

10:08 2 still looping; can't see the 3rd 1

now. 10:17 the 1 lower dove disappeared,

then 1 on top dropped & still winged sail

to top of near cedar (?). 11:23 1 flew from

? top of near cedar to NE.

3 Sept. 11:19 a lone small juv. in. at 8:30

about 10+ flew off from feeding.

4 Sept 8:03 am fog; 2 in feeding 8:32 1 top
up st cedar.

5 Sept 4:21 pm dear 1 from N to top up st cedar.

7 Sept 8:20 am 1 top up st cedar for 20+ minutes

4:52 1 flew in to edge to S. 6:40 1 top up st cedar

11 Sept 10:10 am fog 1 top up st cedar

13 Sept 10:11 " " " " " " " " 10:29 flew

22 Sept. 7:41 am 1 feeding with 15± doves fog

6 Dec rain approaching saw 2 groups of doves
pigeons flying over

Mathematics

1981

1. The first part of the book is devoted to the study of the properties of the real numbers. It begins with a discussion of the natural numbers and the integers, and then moves on to the rational numbers and the real numbers. The properties of the real numbers are studied in detail, and the book concludes with a chapter on the construction of the real numbers from the rational numbers.

2. The second part of the book is devoted to the study of the properties of the complex numbers. It begins with a discussion of the complex numbers and the complex plane, and then moves on to the properties of the complex numbers. The properties of the complex numbers are studied in detail, and the book concludes with a chapter on the construction of the complex numbers from the real numbers.

3. The third part of the book is devoted to the study of the properties of the real and complex functions. It begins with a discussion of the real and complex functions, and then moves on to the properties of the real and complex functions. The properties of the real and complex functions are studied in detail, and the book concludes with a chapter on the construction of the real and complex functions from the real and complex numbers.

4. The fourth part of the book is devoted to the study of the properties of the real and complex series. It begins with a discussion of the real and complex series, and then moves on to the properties of the real and complex series. The properties of the real and complex series are studied in detail, and the book concludes with a chapter on the construction of the real and complex series from the real and complex numbers.

5. The fifth part of the book is devoted to the study of the properties of the real and complex integrals. It begins with a discussion of the real and complex integrals, and then moves on to the properties of the real and complex integrals. The properties of the real and complex integrals are studied in detail, and the book concludes with a chapter on the construction of the real and complex integrals from the real and complex numbers.

Christman
1991-92

Columba fasciata

45

29 Dec. del Norte St. Berkeley, Alameda Co., Calif
11:56 am overcast, no rain now - 1 top
up st. cedar.

30 Dec 2 in top up st cedar 8:20 to 9:08^{am}
scattered clouds. 2:58 suddenly 1 walking
on ledge S to N, halting, hesitant - it sees
me; at N end flies silently up to roof.
3:02 • flew down to ledge again then 2
down to roof; B-t to landing tho still
peering at me. Doves fly off & it follows.
Believe this a ♂, bright violet chest, ^{sharp} calous.

8 Jan. 9 am 1 flew to roof, no calls etc.

18 Jan 4:30 2 in top near cedar

20 Jan 9:59 a.m. briefly 1 d to ledge from
roof, then to cedar, shy. No one else in.

22 Jan 3:33 pm C & C 2 out of SW: 1 over
house to NE other to top Near cedar.

30 Jan 4:35 pm stratus cover, 1 top up st cedar

21 Feb '92 7:40 am overcast 2 feeding
when I got up, flew into near cedar.

4 Mar 7:45 am overcast at least 1 in
to feed. 4:27 1 from NE to line then ledge,
then another to line - first walked S &
2nd came in. Now feeding with H. Finch.
These guys are shy, but if I don't move^{up}.

5 Mar 9:18 am overcast - 1 landed in W mass
limb of NW elm - above utility pole for
30+ sec. flew S.

6 Mar 3:33 clouds. Scrub J in then 2, then
another flew down to feed. 1 really large
& 1 dark dull plumage but green sides.
The latter was the 3rd in. Could this be a
yearling? ad. size? other 2 full ad coloration

7 Mar 4:39 in in feeding with scrub J with
above doves about.

1. The first part of the paper is devoted to a review of the literature on the topic.

[illegible][illegible]

Mustman
1992

46

Columba fasciata

- 15 Mar., del Norte St., Berkeley, Alameda Co., Calif
7 am + lots of HU-whooping close in
9:13 overcast, 1 to top up at cedar. 9:30 flew
- 16 Mar 9:17 1 to top up at cedar. 9:18 flew NW
- 17 Mar. 9:29 am clear-calm 1 8' from top of
W. elm on 1" branch. at 7 am ± heavily
wing beats of 1 leaving landing. They do
sneak in early with doves
- 18 Mar. 3:21 pm overcast 1 in top up at cedar
4:02 still there. 4:27 gone!
- 19 Mar 9:38 1 flew from NE into near cedar, 20'
from top, perhaps another higher. Both
down to ledge, could see me, lots of
hesitation then flew.
- 21 Mar 6:05 came up stairs, 1 was feeding, flew
- 2 Apr 6:28 pm almost sundown, fog, 1 (♂?)
in to line 15" from house, then to ledge
saw me & flew. a high bird!
- 5 Apr clear 7 pm 1 in feeding; shy when ^{it saw} me
- 6 Apr 7:12 1 in briefly - flew to low branch of cedar.
- 9 Apr 6:19 pm clear 1 feeding
- 10 Apr 10:50 am 1 (? ♀) in first N ledge, then landing
extremely cautious, flew when it saw me.
- 11 Apr 1:31 pm overcast. 1 from SW over trees,
first sailing in then a brief flight display
- wing tip quivering - landed in top near
atlas cedar. This is first display seen this spring
- 18 Apr 10:37 am clear windy 1 from W low, to
roof. magnificent!
- 23 Apr 7 ± a.m. clear. Saw 1 in feeding &
heard perhaps 2 others fly off.
- 7 May 11:05 Fog - 1 from S into top near cedar
& in slow flight, tail spread.
- 8 May 10:18 1 in to feed. 2 in feeding at 7:30 am ^{Fog}

1878
The following is a list of the names of the persons who have been elected to the office of Justice of the Peace for the year 1878.

1. J. H. Smith
2. J. H. Smith
3. J. H. Smith
4. J. H. Smith
5. J. H. Smith
6. J. H. Smith
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47. J. H. Smith
48. J. H. Smith
49. J. H. Smith
50. J. H. Smith
51. J. H. Smith
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96. J. H. Smith
97. J. H. Smith
98. J. H. Smith
99. J. H. Smith
100. J. H. Smith

Christman

1992

Calumma fassciata

47

17 May

7:30 am 1 'Puck-you' call in cedar then came down to feed.

21 May 7:30 am clear at least 1 in to feed.

22 May 6:51 pm sunny 1 in with leaves, tar heels

23 May 6:30 2 in to feed.

25 May 2 in at 6:30 \pm

29 May 7 am 1 in to feed

3 Jun. 7:30 am 1 calling in close ⁱⁿ & distance

10:40 2 from NW to top of up - or cedar, then 30 sec apart flew down to S. could not see where.

7 Jun. 7:30 am \pm 2 in feeding.

9 Jun. 9:11 am fog - 1 to top near cedar

15 Jun 2:13 (no foot out since 12th) 3 adults in briefly to landing (first ledge) they are hungry. also dove & edge. sp. They are shy! I'd put out chicken scratch.

17 Jun 6:44 pm clear, 2 feeding, flew. ^{1 dove} didn't

20 June 1:18 clear 1 in briefly after a Steller J. came in!

21 June 7 am \pm calling in the cedar 8:49 two in feeding.

2 July Fog, 1 in about 6:30 am. 8:59 am 1 from W into top of near cedar (always flutter, display flight) in slow flight.

6 July 6 + am clear 3 in feeding, all ad.

17 July 12:07 pm fog 2 from NE into mid section of near cedar.

23 July 10:01 am 2 flew SW-NE below

tree level. 1:29 1 flew to line 1' from house then to ledge - could see me, flew to cedar. 1:45 was down stairs: 2 on a 5" horizontal branch of near cedar

Journal of the

1874

The first of the month was a very fine day. The weather was clear and the sun was shining brightly. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The second of the month was a very fine day. The weather was clear and the sun was shining brightly. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The third of the month was a very fine day. The weather was clear and the sun was shining brightly. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

The fourth of the month was a very fine day. The weather was clear and the sun was shining brightly. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and we all enjoyed it. The day was very pleasant and we all had a good time.

23 July

(carr) 3' from main trunk, 50' from me, in plain sight on front porch, 60' up. For 10 minutes (\pm) they were hitting each other about head & neck, mutual, largest 1 a bit more aggressive. Then parted 6" & self preened wing - back - supracaudal - down to street level - they flew when they saw white mail!

24 July 10:40 am! still colored 1 in to feed for 5 minutes.

25 July 2 in feeding about 8 am - 6:20 1 on ledge, very cautious. 6:24 feeding with doves, tanagers & juncos - sparrows

28 July 12:33 pm clear. 5 in shadowed 2 to top of cedar; several minutes 1 then 1 to roof, then N ledge 4' apart then larger 1 to side of other 12:37 - large 1 into center of oak follows by other - can't see them.

7 Aug 10:02 am fog 1 from low SW up to top cedar. 10:42 another 1 (?) same pattern.

9 Aug 11:31 am 1 in briefly. 4:57 2 on ledge, cautious.

9 Aug 9:43 am 1 top of up 35 cedar.

11 Aug 10:35 am clear 1 briefly top of up cedar

29 Aug 6:30 am same sprinkles as last 1 in to feed.

23 Dec clear, NE wind all day; doves in feeding. Suddenly 2 B-t. Pin & immediately down to feed from ledge. They are huge!

28 Dec 1:31 2 from N into mid part of near cedar. Yesterday - 2 2 sighting

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

Christman *Columba fasciata*
1993-94

8 Jan.,

12:47 / flew into landing & looked about - doves feeding, then flew low to near cedar. Minute later it returned on another 1 on ledge briefly. 12:54 2 in feeding - flew to W. lin.

14 Jan clear, 4:23 pm 1 on ledge silently, then down to feed.

24 Jan 7:30 am clear. typical 'hoat' calls (2) then 2 flew from top of near cedar - 1 in typical flutter slight display.

6 Feb 10:18 1 in feeding.

12 Feb 4:17 1 in to feed; very shy -

16 Mar 2:05 lite rain; 1 top up st. cedar
4:15 rain - 1 in to feed.

27 Mar 3:30 a quick look - ?

16 Apr overcast, dull sun 3:37 2 in feeding

22 Apr 7 am clear heavy wing beats - 1 was in

4 June overcast, light rain 4 tree top level at 3:10 pm then 1 came down - others in near cedar? with doves

5:32 RAINFALL = .31"

28 June 9:39 clear; 4 in top up st cedar
9:46 flew - at least 7!

22 Dec 2:51 pm clear, cold 2 in top up st. cedar

12 Feb 4:24 pm clear 1 in to line 12" from house then another in front of me. First

to side of 2nd both cautious but in 30 sec

went down to feed, then ~~both~~ came in gently

"hen scratch" and more. ^{doves} These have been before

flew 4:28

1 May 6:45 ± am 3 separate ipo-ku calls in near cedar - didn't hear come in

Handwritten text, appearing to be a letter or document, written in cursive script. The text is mirrored across the page, suggesting bleed-through from the reverse side. The content is largely illegible due to the quality of the scan and the cursive handwriting.

Christman
1994

Columba fasciata

15th Mar.

6:12 pm getting dark, overcast, 1 in to landing
- saw a of me & came down to me &
food (dinner watch) & just put out.

6:21 gone - didn't hear it fly.

7 May 6:35 pm almost clear - 1 to ledge
& landing fed for $2 \pm$ minutes

15 May overcast, windy 2:10 pm suddenly
1 down to ledge 8' in front of, after much
peering over ledge (at ledge) went
down to landing to feed for 1 min.

Then a 2nd down from roof, same
peering - apprehensive! 1st - back
up 1 ft from 2nd, then flew to 5
followed by second. The first had
a very indistinct bar on tail,
terminal part same as proximal.
2nd had very distinct bar &
terminal a light tan. - (?)
both big robust!

3 June 10:31-:35 2 in feeding 3:49 1 flew
to roof from ledge, with 4th movement
of 'Voad' new world' land came down
to landing & just looked at me & flew
back to cedar! Wise bird?

5 June before rain heard 2 claps of heavy wings
11 June one in about 4 pm very shy
flew after 20 sec.

14 June 8:04 am clear 3 ad. feeding 1+ min.

17 June 8:36 am clear, 2 in for 2 min.

25 June - 8:am. heard 1 fly off from feeding

27 June 7:07 clear & 80+° 1 in to feed briefly.

8 July 1 in 7 \pm am perhaps another

10 July - 1 in at 2:45 on ledge, looking down
for a min. saw 1 finally flew to cedar

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is organized into several paragraphs, with some lines appearing to be numbered or bulleted. The ink is very light and the script is cursive.]

Christman

97-99

Columba fasciata

27 Dec

Saw clear call, 1 calling clear in,
8:20 1 seen in top of near cedar.

4 Feb 98 10:27 am sun/clouds 1 to line
18" from corner of house, much peering
with head-neck. after 2 min. flew, low.

8 Feb 3:20 pm light rain, 1 in feeding (no
other spp.) saw me - flew 25' to near cedar.

3:33 back down & fed to 3:44 - jumped
up on ledge walked 5.5' & flew. Wings &
back a dark slate gray. while feeding
raised head every 4 to 6 sec. to look
about, & clearly saw me before
jumping to ledge. 4 doves & 4 + juncos
about that didn't come in while
pigeon was feeding.

16 Feb 4 pm clouds 1 flew to & out of NW elm

18 Mar 11:04 am clear, 1 flew down to
ledge in front of me, walked to N corner,
litter. Then quickly 3 more from
N down & all 4 fed for 5 min. then
suddenly flew, explosively to W.

20 Mar 7:45 am fog got out of bed, & 2 flew
from food on landing 60' into S (near)
oak cedar & landed on 5' horizontal
branches. Thus a local pair! (?)

20 Mar '99 10:09 am. clear. 1 to N ledge, slowly
walked 12' S. down to landing to feed on
landing - millet. 10:13 another to ledge
- both from N. both flew circled 15' and
returned - fed to 10:18. Then both flew
low to NW. First dir seen this winter

10 Apr. 4:07 pm light rain, 1 from S to top of oak cedar

Christman
95

Columba fasciata

8 Apr

3:23 clouds 1 came into ledge for several min., a Fox Sq. in feeding it jumped down & fed. another 1 into line 12' from house, subseq. flew off. 3:28 - 2 quickly feeding 38" from Fox Sq. no doves in.

9 Apr 9 am clear, 1 in feeding with 1 dove.

6:13 clear, 1 in feeding.

10 Apr. 11:08 - 11:15 am clear 1 in to feed
flew over arch & into mid section of NW elm.

3:56 cirrus, sun. 1 feeding with 1 dove.

Flew to NW elm.

12 Apr 10:27 am overcast. 1 in to feed with Fox Sq. think it's a ♀. It is getting used to seeing me. Flew back to NW

21 Apr 2 in feeding at 9:42 am clear.

9:51 - 3 flew off.

22 Apr 11:08 am clear 4 in feeding - they are not bothered by chain saw down St.

23 Apr several seen periodically. Mail neighborhood, feeding & trees to NW.

24 Apr 12:34 pm clear w cirrus 4 in highly.

30 Apr 12:15 pm clouds, 1 feeding for 15 min.

7 Apr 10 am scattered for 2 birds into feed.

28 June 6:37 pm fog 2 in feeding. very shy
live heard them in early am flying over.

14 Aug 7 pm 1 in feeding with 2 doves.

31 Aug 6:26 pm clear 1 feeding with doves, etc.

Jan 28, 97 2:48 pm clouds - 2 in top up St.

cedar. first in awhile!

6 Dec 97 4:04 cloudy 1 in feeding Rocky

17 Dec 2:40 pm overcast, 1 top of up St cedar

18 Dec 9:50 am almost clear, 1 top of up St. cedar

Handwritten text, likely a letter or document, covering the majority of the page. The text is written in a cursive script and is mostly illegible due to blurring.

Handwritten text at the bottom of the page, possibly a signature or closing. The text is also illegible due to blurring.

Aristman

94-95 *Columba fasciata*

16 July

1:03 pm clear, 3 from E lawn near house, beyond cab turned S.

25 July 9:11 am clear 1 flying to near cedar from roof. 1 abs at 7 days ago. now 2 others - shy.

22 Aug 8:15 when I walked out this am. 1 flew NE over eurus. fog

3 Sept 9:13 am clear 3 top up st cedar

21 Sept 9:49 am fog, 2 top up st cedar.

8 Dec clear, 3:50 pm 1 on ledge briefly with 10 doves - saw me, flew to cedar.

19 Jan 95 12:22 thin overcast, 2 in top up st cedar.

18 Feb 2:45 pm clear 1 top up st cedar.

20 Feb 3:40 pm clear 1 in to feed c 2 doves

23 Feb 9:45 am fog 1 top up st cedar, flew down to canifers to SW.

12 Mar 4:03 pm overcast doves in feeding then 2 huge ones in to feed 15 min.

Magnificent birds perhaps was handsome

14 Mar 3:25-3:36 pm light rain 1 came in to feed with doves. probably a ♀ coloration not as vivid as an ad ♂, still big tho.

15 Mar 4:20 clear 1 calling close

16 Mar 7:45 am 1 ad (1♀) in feeding with doves

18 Mar 5:39 pm few clouds - 1 in feeding ?♀

22 Mar 9:40-45 am. light rain. The ?♀ in to feed with 3 doves. (was in briefly ^{yester} day)

24 Mar 3:54-4:01 (few clouds, cool) 2 came in to feed with 5 doves. Fox sp. scared them off

27 Mar 3:57 clear 1 ad in to feed

28 Mar 9:55 am clear 1 in feeding (?♀)

1 Apr 8:30 am clouds - 3 in feeding. 1:23 1 top up st cedar.

4 Apr 5:30 pm thin overcast. 1 flew off

1875-1876

1875

The first of the year was a very dry one. The weather was very hot and the ground was very dry. The crops were very poor. The people were very poor. The government was very poor. The country was very poor. The world was very poor. The universe was very poor. The whole was very poor.

7 P.m. 8 Aug.

Pair of band tails came in over our house with wings
fanned, where they have nested(?) then they flew
to branch 4' from trunk of alder (25' from ground).

They were side by side, first pinched lower back at
end of secondaries, then in turn to upper back.
Then 10 sec. of "killing", then one mounted the other.
"♂" pulled head back, ~~could not see what it did~~ - in
almost a jerking manner, then it spread tail
wide to a very high copulation; feathers (2013) lifted
down, "♂" dropped off both pinched lower neck.

Handwritten text at the top of the page, possibly a title or header.

Handwritten text on the right side of the page, possibly a date or page number.

distance
1987

Zenaidura macroura
= *Zenaida macroura*

1. ~~2~~

28 July del Norte Ave. Berkeley, Alameda Co, CA
I have put out a bird mix feed outside
the porch structure, upstairs, my bed-
room. This is since Feb. The last
2 months mourning doves have been
coming in to feed, increasing from
dawn to dusk. At first a pair, which
cooed briefly off & on. Then a week +
ago an imm. plumaged bird showed
up. Sat Sat. mourning dove tail feathers
etc were in gutter at street level. Today
two pair were present in afternoon.
Then at 5 p.m. white matching nees &
dunia one landed in web on a 4"
branch S side, 20' up & looked things
over. After 10 minutes it flew into the
Rhododendron near porch; flew off.
Then it flew back to web & in 10 minutes
flew to S. side 35' up onto a 1"
branch. This sp. is now most
frequent visitor - in spring it was
brown to yellow

8: p.m. an imm. showed up on landing, then
flew with whistling noise to wire 6'
from house - extremely cautious.
white edges to wing feathers & extra
white on forehead & curiculus.

8:15 p.m. imm. dove has been feeding
for 5 minutes - extremely cautious
no adult doves about for several
hours - this is strange.

29 July two doves of line - one into
house - 10 yds from house another
one flew in & landed between them
30 an imm. on feeding area at 8 a.m.

eston
1987

2

Zenaidura macroura

~~July 203000 birds of Berkeley, CA~~

11 Aug. 4 p.m. a pair (♂ & ♀) in together, ♂ has right leg with toes bent under - walking on t-tarsi.

4:23 another pair in; ♂ flew but landed on wire 12' from ledge, its st foot ab.

12 Aug 12 noon - ♂ ad. came in to feed & juv. plumage bird also. the ♂ chased the juv. by flying at it - juv. flew off a way, to trees

17 Aug. in all day several times
4:40 ♂, ♀ ad. & juv. in together
♂ cupple st foot. another came in & no bickering, with treehcs & house finches

20 Aug. the ♂ st. foot lame in with ♀ at 4:30 p. jumped after & called who - who — who. flew, ♀ feeding they fly S. The first pair to show flew NW. Think there are 3 pairs now

26 Aug. high fog, 12:10 p.m. ad & a juv. I have not seen before in feeding

27 Aug 2:30 p.m. a handsome juv in with ad. 4:13 p.m. another juv. - heavy molt & rich brown on back & scapulars (spots) feeding with a house treehcs (molted)

29 Aug. M. Lane - came in more often than other species & also more individuals. They are cautious, usually landing on power line 6-10' from ledge, then ledge, then down to food. but will also come in directly

istruum
1987

Zenaidura m.

3

29 Aug. del Norte St., Berkeley, Alameda Co., CA
10:30 a.m. an ad & juv (starting
to molt scapulars & inner
dorsal coverts & new coverts)
into feed, wire-edge - to food
a while later a ♀ appearing one
came into E edge & saw me -
about posture is head & neck up.
This individual doesn't have
a wet look (neither the other ad.
which appeared to be a ♂), but
the base of bill was a bright
pink. - young in nest?

30 Aug. high fog 3:30 pm on power line
juv. coming into ad plumage esp. about
head, no light edged coverts
ad ♂ moult about head, heavy
light blue skin about eyes & esp. deep
russet scapulars. ad ♀ nearly
thru molt no other outstanding
characteristics - no other does today

3:54 pm 2 juvs came in eating avidly
& an ad ♀? nothing - 6 in view.

4:43 pm 2 on wire (alone) & 3 feeding
with a new one, an ad sex? with
many feathers missing at shoulder
& upper scapulars of its wing
- have seen it here before.

Doves come here persistently &
are less frightly than all except
perhaps *Columba* tree-hoes. at
this time feeding 1 BT, 2 juv
Carpodacus m.

Christman
1987

Zenaidura m.

4

7 Sept, del Norte St, Berkeley, Alameda Co., CA
8 doves feeding at 4:45 p.m. clear
warm - juvs are juvs. in molt
(include 2 Brown tacebees off
to one side). One imm. molting
and is walking on wrist of rt leg.
This is not the same bird as the
other one which was an adult,
also the one with rt scapulars missing.

6 Sept 3:30 pm light haze. 5 came in incl.
2 juv in molt. Have heard for
some time when doves about a
quiet, high "who" - incipient
calling? by juvs.? 3:35 + one
ad and another juv. Some
dominance behavior - a
rush at ♀ & juv. by the largest
one - ♂

10 Sept 4:00 pm ¹¹ in view; 4 or 5 juvs.

11 Sept noon - have been doves in &
out all a.m. most 6 - including a
molting ad. ♂ (?) who has rt foot in
hurt barb. have - a pair - ♂ erect
head & 6" away feeding. ♂ called
softly "who" rather short, and
like - made bill open. Have heard
often. ♀ pecked at ♂ which flew.

2 pm - large juv (♂?) heavy molt
with hurt rt foot; small molting
juv (♀?) & ad. the juv ♂ slightly
open bill calling "uh-ah" is this
incipient molting?

7:15 Sept 9:30 a.m. new juv - crippled lt. foot
also lighter superciliary line & under
eye & auricular areas. Chubby looking.

istman
797

Zenaidura m.

5

15 Sept, Del Norte St., Berkeley, Alameda Co., Calif

10 am. 3 ad all in a degree of molt, 2 juv. molting. Cautious to feed

16 Sept. 4:34 pm Clear bat. 4 feeding (2 juv. & Br. towhee) 5 perched high in cedar on large branches close to trunk.

21 Sept. 1 pm Clear, still 2 in feeding. one with front toes of rt. foot turned under - it is molting about head & a very mottled plumage (advanced juv.?), it has been calling "who-who who-who" very softly

24 Sept 3 highland cover coal 3 doves, ♀ House F & 1 Br Tow. feeding. ♂ dove with flexed rt. foot, ♀ & juv. all finished molting. 2 more including a new juv. (this one with no molt into ad. plumage).

25 Sept - 3 am fog 2 ad almost finished with molt & juv. into feed - none with feet deformity. An ad. new feathers in shingles on top of head, ragged in back of upper neck - is this the last of the molt? rest of plumage is new.

29 Sept 4:30 pm 9 came in rapidly of which 4 are juv. - 3 molting and one favoring a Lt. foot* (not flexed) (today 3 only about 3). One juv. aggressive & pecked at small ad & a juv. * walks on toes. Adults are not in molt & several are distinctly darker brown on dorsum than others - see linked - ? One ad came in with flexed Rt. foot - gray on back - ♀? They are more used to me and not as flighty.

istua
787

Zenaidura macr.

6

19 Sept del Norte St, Berkeley, Alameda Co, CA
a Br. To about edges.

29th 10 came in to roof over head & ate
3 juvs. & one other in molt? all
feeding avidly. Some soft "wo"
calls. One aggressive juv. not
all so peaceful some hissing
by short head low charges & pecks
ad. with flexed foot. They can see
me 5-6' away & pay no attention
one small juv. favors it just
but gets lay - not limping. I
think all ad are over the molt.
Seven towhees (Br) feeding on the
edges - no fear of doves unless they
get too close 4:43 some fly off
50% of food gone. None of these juvs
have the almost white areas about
the eyes. Some are flying into cedar &
new trees this week.

1 Oct a juv resting on ledge, and ad
landed 7" ± from it, juv raised
head-neck & inflated upper throat &
called very weakly "who-o" then
charged ad which flew to wire 12'
away. Amazing such aggressive beh.
this soon in a juv. which showed
no molt. Have heard this call
before here.

2 Oct. 4:36 pm clear, breeze 6 feeding + Br. To
2 juv. one flipped wing as an ad.
adult with flexed foot. one juv extremely
aggressive - chases 3-15" ad adults.

- 3 Oct. del Norte St. Berkeley, Alameda Co., CA
wasn't about the ad. flexed rt leg here.
- 4 Oct Clear hot 3:45pm 7 feeding
- 6 Oct 5pm 6 ad (incl rt flex foot) and
two juvs.
- 7 Oct 7:30am heavy fog - group feeding
Three doves huddled close to each other
in cedar ~~the~~ heads down & neck feathers
ruffled. Haven't see this before. 11:35 am
fog - seen feeding. No molt evident
(rt flex foot present) same place from
the cedar. One was aggressive -
lowered head & charged from 8"
at saw me & flew - think this was
a juv. a week ago - smaller than
others - a frighty individual - They
fed for 3 minutes & then all flew off.
- 11 Oct 4:30 feeding 4 doves (incl rt flex
foot, a juv into ad pl) & two b. towhees
& a steller about edges but not
very far in & two scrub j. in trees close
by. relationship = doves = jays?
- 13 Oct 4:46p fog returning 4 feeding
juv (aggressive one = calling softly "who"
is almost ad. plumage) some low
head chasing - these juvs are
especially rich in almosta burn number
- 15 Oct doves in feeding at crack of dawn, fog
- 25 Oct, fewer about - one or two; a new
juv has been coming in to feed in late pm
are they out wandering about countryside
- 30 Oct. Fewer doves about. am flexed Rt foot.
Yesterday 3 ad. plumage birds much
aggressive beh. from one, "who" call
soft, but explosive.

Struan
'87

Zenaidura macroura

8

30 Oct Del Norte St, Berkeley, Alameda Co, CA

3:41 pm highlands 3 - eating & necks
engorged (craps full) put out food with
lots of wheat - they eat it & cracked corn.

31 Oct 3:13 pm cloudy 3 feeding Rt foot flex

6 Nov I have been feeding in
early am & late afternoon - this
date 6, 3:30 - 4:30 p. They react
when a scrub jay flees in.

11 Nov. They have been feeding first
thing in morning & late afternoon.

5 last afternoon - They have been
resting in cedar. 8:40 am clear
fine in elm to NW - 3 five ft. apart,
two 10' from others, preening, drumming
10' & from top of canopy. first time.

14 Nov. 6:22 a.m. clear, cool, sky pale
gray - at least 7 feeding, ^{flipping} much winging

20 Nov. a group, 5-7, feeding before
dawn and at sunset. 11:40 2
feeding before one flew off same
one syllable "coo" - I think this is social
/ individual distance. Now about
development of cooing - see earlier
notes when you plumaged birds
about? 11:45 am one feeding - rain
lightened up - will pick up millet
seeds in a puddle of water!

There is variation of their acceptance
of me - some individuals will see
me thru the window (on the wire
or ledge) and be frightened, others
feeding close to outside wall & I
have to stand up to see them
at 4-5 feet & not fly!

Estman
1997

Zenaidura macr.

9

~~20 Nov. Del Norte, Berkeley, Alameda Co., Cal~~

3 Dec cloudy - 9 in feeding at sun down
one threat a ligane to another, head down
- to horizontal & a 3-5" advance, the
other one retreats. They have been
feeding at sunset & before sunrise
every day. Very skidish.

11 Dec. 4:20 pm 9 feeding - as every
early a.m. & before sunset; same-
time the not consistently during the day.
They maybe roosting - resting in cedar
but rarely in the elms. Number varies
7-9 seems to be it. No felled-legged
ones seen in many weeks.

12 Dec. clear high wind 2 pm in feeding.
4:36 pm 10 doves feeding; more 12?

13 Dec clear cold doves come in early
6:40 a.m. almost still dark. 7 (?)
feeding at 3:41 pm, plus 5 on the wire!
Lately esp. a.m. I have heard a 2-part
call note - is this developmental in
juv. birds? No vocalizations other
than these! Of course, the whistling
of wings coming & going.

15 Dec 7:24 am cloudy, cool. 25 (!)
on ledge looking for 20-28 minutes
Rt. felled leg among them. There
were also a call: a short almost
explosive "coo" repeated for 4-6 sec.,
didn't see the context. Feeding in rain!
2:40 pm light rain; 5 flew in & landed on
wire. Gusts blow them about - 3 flew into
Pithecellobium. These are the locals - any part
of day. 3:25 pm rain & strong gusts of wind
one on 3" limb of oak, in center (8+ feeding at 3)

Christman
1987-88

Zenaidura macr.

10

- 21 Dec., dd Harte St., Berkeley, Alameda Co, CA
4pm fog 7 in feeding -
- 31 Dec. Feeding ~~leaky~~ am & at sunset in
varying numbers; seems to be about 4
come during the middle of the day.
4:18pm clear-high clouds - cold in high
40's - several feeding - heard a
variation on earlier noted call - this
time a soft, quiet, mellow "who-o"
3 feeding - what bird? what sex-age?
- 2 Jan in a.m. at 7+ & late after noons.
at 1 p.m. 5 feeding with Song Sparrow &
a brown towhee.
- 4 Jan 3:30pm a group of them (5+) roosting
& waiting in cedar to feed - their hangout
- 12 Jan 3:16pm high clouds - 3+ doves
feeding a sharp "who-o" rather soft
coming from one of them.
- 13 Jan. 7:05 am doves in feeding heard
several "who-o's" & a dove in cedar
gave the "mourning" call - first that
I have heard this year. On Solano
Ave. this am (8:30) saw a dove in rising
flight before landing.
- 14 Jan. 7 regulars at 2: rather tame - i.e.
I can be at window & they don't fly.
- 15 Jan 10:45 am cloudy. 6 in elm on edge
(the rarely perch in this tree to NW) and
one in cedar on 3" branch within canopy
- a frequent perch
- 18 Jan 4:30pm clear 6 in feeding/full ^{call-}cooing
- 20 Jan. afternoon, one "cooing" in backyard
- 21 Jan. 8:00 a.m. first cooing this yr / feeding
4:15pm one perched on E. edge of NW elm now
for some time. 4:30 first display flight.

Christman
1998

Zenaidura m.

11

21 Jan. del Norte St., Berkeley, Alameda Co., CA
4:42 pm another dove joined the one
in the NW one - perched 6" away & raised
& lowered head & approached, the
original one flew 12 ft away & the
new one followed. Then both flew.
See what the sun & nice weather
can do!

22 Jan 7-8 am doves in the not many -
a number of "coo's" given this a.m.

4:35 pm a display flight in the circle area.

23 Jan Much cooing while feeding at 7 a.m.
one leaves off a note ~ - - ; (normal
~ - -); another has an extra ~ - - ~ - .

at 9 am. two perched in NW elm on S side
preening - sunning. 9:36 a.m. the NW
elm has a cluster of dead leaves on a
branch lodged in another branch 2/3 way
up tree. Noticed a dove sitting
on these leaves - brooding behavior
did see no carrying of nesting
material. Another dove perched 7' up
& to W of broody one. Another dove
was with the broody one but flew N.
9:41 2³ at ledge.

24 Jan (Aunt's house in Palo Alto - There
were 15 - 20 doves on powerlines
before roosting in street side
Magnolia trees?)

26 Jan. one perched in top of NW elm - flew in
circle a bit higher than perch back to
same tree landed 20' away - sailed on
fixed horizontal wings & 3 short periods
of slow, shallow wing beats - this will
be described as advertising flight - ad.F

Wistrana
1988

Zenaidura mac.

12

26 Jan., del Norte st., Berkeley, Alameda Co., CA
that is Ad FL = advertising flight. The
flight starts as a angle up climb
epagee - then coasts down in an
arc or circle. Now, no bird feeding,
no bird on pile of leaves in NW elm. 4:25 pm
still perched, a very minor amount of preening
No other obvious m. dove in sight, but
can't see that much. 4:50 pm the bird flew
to my roof in a few minutes & flew into
cedar. There was some cooing on the
roof - now feeding.

27 Jan high overcast sky - 8 doves feeding
and 1+ in elm to NW. 4:25 pm several
"coo" calls. Birds from NW elm flew to roof
overhead.

29 Jan. 7:30 + am one calling "cooing" one
display flight. 6+ were feeding - I couldn't
see them. a scrub jay called & all flew
(within 30 the bush tits disappeared.

1 Feb 4:15 pm - 6+ feeding & loafing - one
with swollen neck, head up & tail low
parallel to ground jumped at a smaller one,
no call, which flew off followed by the erect
one - a male. Is breeding behavior starting
? - males first. No cooing in winter - the
sunny weather is starting things off. it is
still cool to me but warm in the sun.
4:23 one "cooed" about 8 - . who-o, o-o.

2 Feb 4:00 pm clear 3 resting - then a big ♂
upright, neck inflated & head down jumped at
♀ & called, ♀ flew to cedar, ♂ looked about
a minute & then flew into cedar also.

3 Feb, 4:52 pm clear, 8 feeding, a little cooing
♂ head up chases on foot, ♀ retreating.

Christman
1988

Zenaidura macroura

13

- 4 Feb., del Norte St., Berkeley, Alameda Co., Calif
at 8:30 am 5 on line in front of house
a little later 2 on back fence up in
back - are these going to be the local
breeders.
- 5 Feb. 11:45 am 2 in with 3 squirrels
one dove has flexed - right foot - first
since Sept on these 'vents. } 1:24 pm 2
- 8 Feb. in to feed - one has a flexed Rt Foot -
is this a pair? Yesterday saw 2 doves
feeding at tube feeder - 3rd story of
house to NNW behind back - usually
only occasional house finches ^{feed} there.
- 9 Feb. 4:15 pm 2 on wire one advanced from
1' away to next to first, cooed & tried to
mount - ♀? flew.
- 10 Feb. 5:18 pm one in NW elm, sailed - glided in
80' arc to SW back to other elms.
- 17 Feb. 3:10 pm persistent cooing from cedar.
- 18 Feb. 7:30 am two feeding They are making
a sharp "who" call - it's not at all very
loud. A variation on that call is an
 softer "oo" - almost a hollow sound
and given in a series. 3:37 dove flexed Rt Foot
- 19 Feb. 2:30 pair in to feed + one other on line. The sexual
difference in conformation ♂ vs ♀ is obvious
active cooing & erect-jump display
- 20 Feb. 2:58 pm Rt foot flexed - is a ♂ & in with
a ♀ they were on N ledge & flew into Kilham
yard. Have seen doves on back fence.
- 21 Feb. 4:13 2 landed 2/3 up in NW elm a foot apart
8' from pile of dead leaves ♂ walks along branch
away from ♀ - 2' stops & preens. ♂ walks back to ♀
who jerks head & tail up looking at him. They flee
off SEE Accipiter striatus Act.

Christman
1998

Zenaidura macroura

14

21 Feb, Alameda St., Berkeley, Alameda Co., Calif.
the juv bird was pecking up millet
seeds. gone by 7:30 pm in the dark. Is
this bird from the pair in the backyard?

22 Feb. loose feathers on landing, including
contaminated feathers stuck together. 12:49 one
in NW elm near dead leaves. same place as
yesterday. It would be a good place to
nest, but only after the leaves come out.
3:57 pm dove cooing. 4:15 2 flew from S cedar
& sailed on fixed wings to NW. 4:22 briefly
a dove in top of NW elm - this is not common,
I have not noted it but at almost
any time of day a single, or pair of
doves can be seen flying high & direct
obviously they are going somewhere. I
have seen no big flights of lots of birds
- more than 4 or 5. How do they migrate
here versus in central Valley, say? often
it is one bird flying low & fast below the
tallest trees, sometimes wing set, jetting
to a specific site. 4:32 pm one cooing - - -
from cedar (SW).

24 Feb 4 feeding off & on in a.w.

25 Feb 2:33 pm overcast: 2 adults and
one juv. fledgling in feeding a very
alert young bird. Is this the same
as the other day?

26 Feb 2:56 pm juv came in from N (between
houses) by itself - very cautious, much
peering about. large eyes, all wing coverts
all edge with light buff, small - face pale,
faint having effect of the light edging of feathers on
the breast and neck. 3:12 pm finally went off
ledge to landing to feed, 4:25 one settling - NW

Christmas
1988

2 Feb



position for cooing
& jump

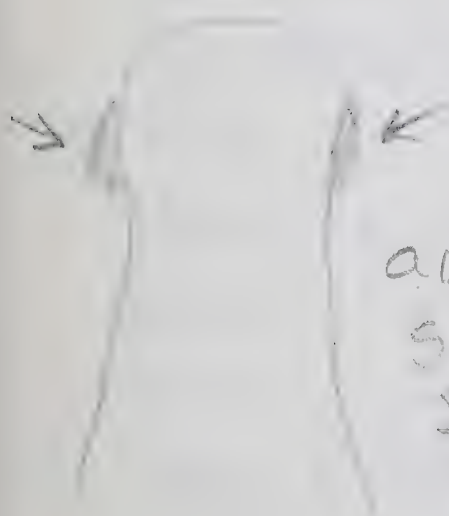


more vertical for
head up phase



shoulders
hunched
forward
before
head
raised

head &
neck up
while cooing
then a
jump



auriculars
stick out
from rear
view

Hustman
1988

Zenaidura mac

15

26 Feb., Del Norte St., Berkeley, Alameda Co. CA
4:38 - 7 in feeding - if they get frighty
they fly into cedar

1 Mar. no food on landing. A juv. on the
landing - relatively tame, peers at
me with huge eyes. Flew N between
houses when I opened window to
throw out food.

2 Mar. 4:40 pm 5 in feeding, including Rt flex
foot - it's a male courting. Towhees are
very tolerant of doves, but several doves
flew when a scrub jay came flying in -
it made no calls (jay, i.e.).

4 Mar 8:26 am one circling in a broad
set wing sailing flight over top of elm st W.

4:50 4 in feeding & on wire, incl. the juv.

6 Mar 4:58 pm the juv. came in with 2 ad &
the rt flex legged towhee. The youngster
runs about faster & more adroitly than ads.
Doves take off in an explosion of wings -
trite but true - a burst, a clamor?

12 Mar. This am early - 6 am in feeding &
now at 5:45 pm I hear middle tone "who"
repeatedly. This seems to be pair! (?)

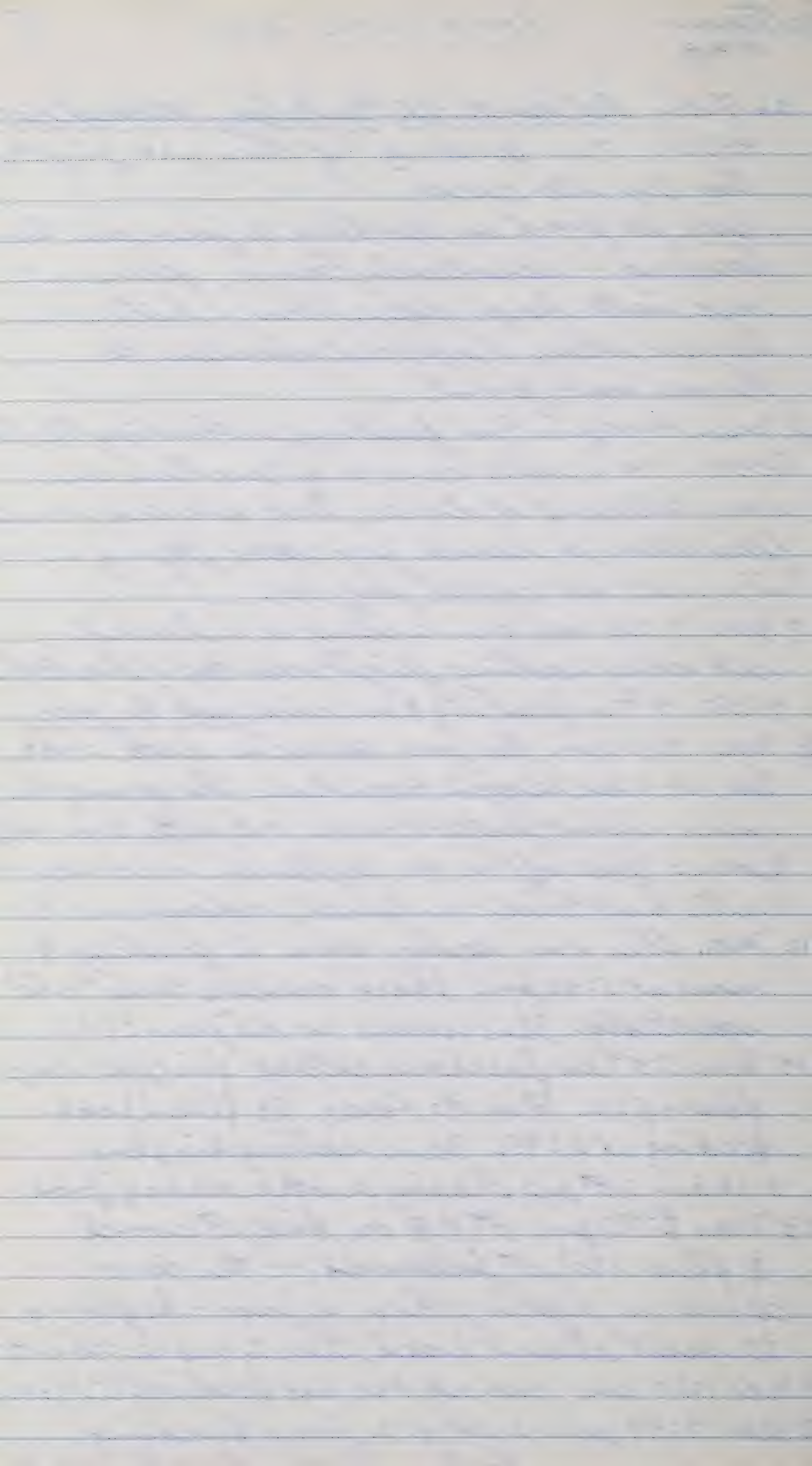
14 Mar. 5:57 am first dove calling - first pale deep
blue - 6:12 7 in to feed, Rt flex foot
feeding at 6:45. 8 am sailing display.

8:16 am 20 one chasing another among food.

18 Mar 4:50 pm ♂ & ♀ on wire, ♂ cooed
♀ flew NW, ♂ followed - the two
came in again; then a juv. - beginning
to molt about head, then 2 more adults

21 Mar 1:39 pm one ad, one juv. feeding. til 2:31 P.

22 Mar 4:49 pm 2 ad & 2 juvs feeding
one is strangely looking beginning to molt?



Histrian
1988

Zenaidura mac.

16

- 23 May, Del Norte St. Berkeley, Alameda Co., Calif.
8:50 am 2 doves in feeding one with
feathers disarranged Lt. scapulars - they
flew off together 50' up in eucalypt near to
Eugenia tree - near there? One dove
on line just before they flew 8:54 am
3 adults & a juv. (molting about head) -
none with feathers misarranged. A ♂ with
dark back chased the juv. 4:05 pm two
on 2" horizontal limb 10' SW of oak near
Eugenia tree 40' up. ♂ preening scapulars
& underwing from top. ♀ one or two preens
on her back then she perched him on shoulder
- scapulars, more preening leg ♂, she perched
him again & they crossed bills & hawed
& she squeaked, ♂ mounted copulated. ♂ flew
2' to another horizontal branch, both
resting. 4:15 pm a pair (same copulating one?)
came into feeding area - ledge, then the
molting juv. landed 10' from ♂ who chased
it - it flew to power line 8' away, ♂
chased it again. ♀ first to jump down &
feed, cautious ♂ followed. 4:45 pm two
came into wire 6" from ledge, ♂ has some
scapular (left) missing, then to roof & a
minute later down to feed. 50 - figure
how many pairs do I have? 2 or 3 prs?
4:49 pm juv. came to ledge - head not molting
- 24 Mar. 2:45 pm a ♂ on ledge cooing -
coo-o-o-o flew to Pittos still calling.
3:30 on limb in W cedar - 2 attempts at
copul. ♀ flew to nearly horizontal limb, ♂
with much cooing.
- 28 Mar. 8:34 am ad ♂ ad ledge - rt foot is flexed

Christman
1988

Zenaidura macr.

17

29 Mar, del Norte St., Berkeley, Alameda Co., Calif.
9:30 am a ♂ in feeding. 10:21 am one preening on 1" branch 2/3 up in the oak well under cover. On driving about N. Berkeley did impress by the number of doves on power lines. Is this same ♂? same ♂ that copulated last week — ♀ incubating during the day. What does ♂ do when ♀ incubating — if not feeding — (available food here)
4:20 pm — mating juv. with ad. ♂

30 Mar clear, cool, N wind. 8:16 am 3 feeding one a ♂ with mildly ruffled scapulars.

1 Apr. 7:33 am pr feeding ♂ it just flew
10:40 am ♂ on line for 15 min. then flew
10:48 same (?) ♂ back to feed, joined by ♂, ♀ house finch 1:49 pm 6 feeding on ledge
3:40 4 in feeding; 1 ♂ coming to ♀ which flew into oak — how many are coming in?

2 Apr. 7 am at least 2 pr in feeding — lots of explosive "who" calls — a ♂ following a ♀ head up she retreated, he followed awhile then approached another ♀ & gave a full "coo" display — she paid absolutely no attention no reaction from other doves. 11 am one flew into oak to open area of larger limbs — it flew up & head appeared within the canopy — unheard of — what is it doing. Only saw part of head — no overt movements just moving head looking about. 11:16 am it is in sun preening — mid morning hang out in sun. 11:43 am pair to ledge on N side from N; ♂ immediately started cooing &

Christman
1988

Zenaidura mac.

18

2 Apr., del Norte St., Berkeley, Alameda Co., Calif.
and display. The dove in oak started
peering about. ♀ to food, both feeding
avidly. 4:11 pm four feeding rapaciously, 2
are definitely ♂♂, (the ♂ with missing scapulars
not here now). a House Finch in Pittos will
not come in with the doves, its singing
4:15 ♂ cooing, legs straight up, body vertical -
♂ darker than its mate which retreats.
♀ with only central tail feathers 2:28 ♂ on line
20' from ledge - another ♂ (disarranged scapulars)
on ledge which flew to dove near ledge on
wire the other dove line flew closer - ♂ flew
to 2' from it - it flew N. a Br. towhee flew
to within 1' of ♂ (12' from ledge on wire) another
Br. towhee landed 9" from ♀ dove. Then ♂
flew into Pittos. 4:20 2 flew in front of up at
cedar - in fact like jets - in sailing posture,
turned to N, then E & down. caught ship

7 Apr. 9:45 am 1 with flexed rt foot feeding.

1:15 pm one ♀ in feeding. She is making
frequent "who" calls - very soft. 1:37 pm
one calling (cooing) from ledge - a big ♂
flew off - 2 returned in 30 sec. (The has
something wrong with rt eye lid & has
especially wide & dark scapular markings
inner - near midline of back.) (& a line
behind rt eyes - above auricular.) ♀ is smaller
- avidly eating millet, etc.

8 Apr 9:58 am flexed rt foot in feeding. 3:50

pm pair on ledge ♂ cooing - counting
he is larger, top of head & neck a gray
blue & much more. Nest iridescent
saw me. Now down feeding. ♂ has
few wing maculations & medial scapular.

Christman
1988

Zenaidura macroura

19

8 Apr., del Norte St. Berkeley, Alameda Co, Calif
markings. 7:23 pm 3 came in on ledge, one
♀, 1 ♂, other ?. Ad ♂ largest opens bill slightly
& issues a soft "who", throat feathers move.
at desk this is 7-8! I can hear them with
this call in early am. while in bed.

9 Apr. 7:55 am flexed rt foot feeding with ♀
10:07 same pair, ♂ ("") vigorously cooing
including up right jump. body nestle.
(who-O-coho) (see JAY acc't
✓_K)

deep rich sound; slight pause, then "O"

5:50 pm flex-rt foot back alone.

10 Apr 6:45 pm 3 in, one was rt flexed foot
who has practically no inner scapular black
marks. All saw me & didn't fly. the other
two a pair - ?

11 Apr 9:15 am doves have been flying
in from W and E - now - rt flexed
foot was charging another (see ?)
at food, tho I think its a ♀ which
retreated - settled down to feed. Two
on line 3' from each other, one cooed
- other flew. This one a ♂ came up on
ledge - to feed - an interaction I
didn't see - first pair flew - followed
by the ♂. 2:10 pm two sailing on fixed
wing to the NW about up st cedar. One
broke off & flew this way over the house
- the other continued & after another
pass landed on utility pole up at
circle & perched. 2:20:30 s. it flew N.

SEE SCRUB JAY acc't. 3:15 pm another
pair in feeding plus one other, they flew
into W cedar - cooing coming from somewhere

Christman
1998

Zenaidura macr.

20

11 Apr. del Norte St., Berkeley, Alameda Co., Calif.
5:30 pm pair in oak in middle on 6" branches, ♂ flew to ♀ they copulated, ♂ flew 7' away on 5" branch & preened, then quite suddenly a jay (scrub) flew at ♂ & both flew & jay landed in 1/4" branch in shrubbery - seen from down stairs.

12 Apr. 10:51 am one flew into line 12' from house - a large one - the texture of throat-neck feathers no smooth; the upper coverts are tipped by a line of buff. Looks like inner greater secondary coverts being replaced - a big gap of 2 feathers on b.t. side. Is this one of the juvs. which appeared in Feb? This bird is robust - probably a ♂ - size wise. Area under eyes - auricular lighter in value & hue - stuck out more than others. 11 am another dove on line & ?
Seems to be more doves flying higher of to W in different directions. One dove has been on wire from 11 to 11:25 am + loafing time. 4:12 pm fog - bright, no shadows. a pair have been on wire 10' from ledge - he called several times - ♀ resting, ♂ preening; 2 more came in descending nearly vertically - floored & fast - large, & ♀ feeding = 2 pair in view
4:38 pm The ♂ flew into Vittos. - a long rest

14 Apr. 11:30 pm big ♂ in feeding darker than others base of bill is dark. 4:26 pm one in partial juv. plumage - esp. wings. it is a robust bird not thin. neck & breast all into 1st year plumage. its small tho.

15 Apr 10:20 am pair in feeding: ♀ feathers are ruffled, spots on anterior scapulars & more on dorsal coverts. ♂ few spots on gut. Dec

Westman
1988

Icthyophaga mac

21.

15 apr. Barro Colorado Island, Panama, C.R.
continued - 18" apart preening. ♂ took
part ♀ who approached ♂ & caressed
quivering wings. He continued preen-
ing. ♀ again approached ♂ touched his
beak, quivered wings; They then
joined bills, several pumps, ♀ squatted
half extended wings horizontally -
especially wings, ♂ mounted &
copulated. Both continued to preen.
Both flew as Fox Eg. approached.

19 apr several pair in mass of time, the last
about late. 4:25 pm. one walked in puddle on
landing up to breast - a late out there.
Their feet are a deep pink, shadows are red.

23 apr a new juv. dove.

28 7:16 pm RFF in with ♀, heavy fog coming in.
a big dove (?) turned on deck -

7:23 doves scratch head under - ant side of wing

29 apr. 10:05 am 2 feeding - also Fox Eg. -
within 24". 3:47 pm one ♂ has been coming to-
day & sailing flights to W. ♀ on landing alone = "who"
4:52 four feeding - 2 pair? 6:47 pm RFF chasing
a ♀ on landing - 4 doves (2 pr ?) feeding -

30 apr RFF in at 9:30 am 11:45 am 2 doves on
near utility pole flew into NW elm low - they
have been flying about to W for awhile -
are they looking for nest site? 12:11 pm a dark
♀ in feeding alone.

1 May 3:57 pm one (♂?) feeding saw me - flew
very few oscillations dorsally & no black
medial edging.

2 May 2 flying, sailing from circle area.

11:10 am 2 in on landing - ♂ chasing ♀, covered

Christman
1988

Zenaidura macroura

22

2 May, ~~del Norte St, Berkeley, Alameda Co. calif~~
much of pursuit was ♂ scullen neck
& jumping forward at ♀ while remaining
essentially hunched - head down, neck
up! ♂ dark spot behind eye - above
auricular patch and dark wide medial
scapular markings.

3 May 3:55 pm 1 pair - feeding one coo - after
5 min. they flew; new pair a coo on
landing - first dove to land on hanging
feeder - perched a deer plastic sides. One
molted dove tail feather on ledge.
within 10 min. = 3 pairs of doves.

4 May 8:30 3 in, one a ♀ in alone; 9:13 am
RFF into feed - with a ♀ (on line). 9:37
RFF one "coo" and upright stance coexisting
♀ on ledge - also feeding. 9:42 RFF cooing
and another pair - chasing - no cooing: 5 flew
to W. 9:58 am ♂ right side black spot
above auricular, 11 inner secondary
molt/lea maculations with ♀ following
her about, upright stance, no coos, she flew. also
♀/wet at base of hill. 10:10 ♂ blue head, dark
back; macul. anterior on wing. (two almost
together) 3:06 pm 3 came in to live - one is a
molted juv. upper sec. coverts tipped with
light buff and inner secondaries being
replaced - the "molt" is a rich russet
on left wing more maculations anteriorly
head, throat & neck are feathers just opened
- rather rough looking both adults seem to
have a line behind eye not real evident
How long do juvs. hang around parents?
Now all 3 resting in ~~the~~ sun, 3:16

Wistman
1988

Zenaidura macroura

23

4 May, del Norte St., Berkeley, Alameda Co., Calif
3:41 3 doves still on line 3:51 2 on line one
on ledge.

5 May 9:24 am RFF in alone feeding. in
2 min. it flew first at one then another dove
on wire, followed one. Then in feeding with
one close by, other further away 4'. It
chased one that came too close - less
than 2'. Another (dark ♂ - ?) came in all
fleece, 10:01 am 2 pair in one pair flew cooing
from the other. 10:20 am ♂ cooing head down,
neck inflated charge to ♀ from 14+".
None in this afternoon. One gliding in broad
disc to W. 7:28 pm heavy cumuli; lone ♂ in & pair
on line (huddled up) - some preening. small
puddle from rain. 2 - 7 few if any in. what happened?

6 May dark pair in at 8:15 am

7 May several doves about today, but quite
suddenly fewer doves. There has been
a lot of ~~the~~ breeding beh. perhaps incubation
has begun.

10 May 8:25 five feeding at 8:15 am. Then a
molting juv. flew to line, rather ratty looking
- first juv. I've seen in awhile. Juv. feeding -
it is small, has ad. inner secondaries, but buff
terminal feathers as dorsal wing - 1/2 of sec-
ondary coverts & anterior scapulars.

11 May 11:02 am RFF in - alone? at noon
discovered lots of contour feathers on outer
(no overhang) part of deck - one staying under
feeding area. 3:38 juv. as yesterday -

12 May, 8:57 am 2 pair on line; one pr showed
some courtship

13 May - 8:52 am pair on line & feeding with

Christman
1988

Zenaidura macr.

24

13 May, ~~del Norte St., Berkeley, Alameda Co., CA~~
juv. molting, it flew to ledge, ♂
hunched shoulders, head parallel to
head, forward & charged it - chasing
it off.

15 May 10:51 am no doves so far to day.

pair in at 11:38 am.

17 May 8:22 am RFF feeding. 9:33 am one
on line, another flew & landed next to
it. First one lifted appassite wing high
& briefly - the other flew up like then ledge.
(? first one ♀, second smallish & molting)
2nd one flew off.

19 May six were feeding and flew off
at 6:30 am. a pair with the molting
juv. on line at 10 am. This period is
definitely a lull in dove activity here
— is it due to nesting?

21 May RFF in at 8 a.m. Two on fixed wing
sailing flight display between utility pole
at circle and the up st. cedar, but rarely
on either.

24 May 4:30 pm a juv. in with 1 - it was older,
not recent fledgling.

27 May The molting juv. in on line at 12:16 pm
Looks rather ragged esp. head to body. Dinner
scapulars are rich chestnut with maculations -
I suspect this is the Jan-Feb. individual. Upper
wing coverts (sec.) still rather juv. in appearance.
ten minutes later 12:27 it came in to feed
after several H. Finches came in. 3:27 pm
pair feeding with a new young juv. it saw
me & flew followed by others. 4:15 pm
3 pair, much preening, H. F. feeding; all ^{one cooed} ~~all~~ ^{about a} ~~just apart~~

Christman
1988

Zenaidura macr.

25

28 May, del Norte St., Berkeley, Alameda Co., Calif.
juv. in alone at 11:33 with House Finches. 2:09
pm 2 juvs., on line, fed & have on ledge
both are almost adult size, typical
luff edges - esp. scapulars gr. s. coverts
- a size difference - one a ♂ other ♀ ?
3:57 one dove feeding in cleared area in
back yard. Also an ad. & a juv. - not
one as alone feeding.

29 May 11:14 am a lone dove - a juv. in good
shape & plumage the small. 11:28 am now a
pair feeding with juv. 11:36 am another pair -
♂ cawing - it has feather damage - left
scapulars and one secondary out at
an abnormal angle - 90° perpendicular to
the coverts. 12:39 pm a ~~juv.~~ juv. and ad. (♂
?) with it. 3:01 The juv. is still around
- alone, sunning - draps wings under
body, exposing entire wing area; scapulars
extended; head of wing jutting forward
and out. 7:06 pm two juvs. one with filoplumes
- it flew immediately - the other one is
use to me. are they nest mates?

30 May 9:20 am RFF in to feed with another ♂?
it scratched head under the wing. The other
ad ♂ is missing 2 lateral rows of inner most
secondaries, s. coverts, etc. The molulated
feathers - cf. damaged bird recently.

10:50 am. damaged ♂ brief coo's to ♀ close
to (♀ prone) model. paid no attention -
2 June ♂ feeding & loafing - ~~the~~ left wing -
inner secondaries & scapulars missing
and feathers at edge of mantle dark. 3:51 2 juvs
both getting ad plumage, same size. one is a deeper

Christman
1988

Zenaidura macr.

26

2 June, del Norte St., Berkeley, Alameda Co., Calif.
russier than the other and it also has more
ad. feathering on neck. also an ad. around.

3 June 8:20 am a pair in feeding with a
new darkish juv. (dark because bases of
feathers, neck are dark - very scaly looking)

5 June 10:15 am 3 ad & 1 juv. russier rump &
hand on existing tail - one of side feathers - small

7 June - a pair feeding at 9:29 am with
2 juv. one small with juv. plumage & a
fair number of spots on wings, another juv. +
with fuller ad plumage complete set of
maculations - slight buff edges to scapulars
and grt secondary coverts - recess essentially
adult plumage.

9 June 11 am same cooing / pr on landing
& sailing - fix wing to w & among elms.

4:39 pm juv with ads = juv. young small tail hands

3:03 pm a pair in feeding - ♂ cooing

10 June and they have 2 juvs. one
without median tail feathers - thus hands
on tail & another no hands. filled out
not very recent nestlings. a pair
has been resting in cedar on 2"
limb 30' up. 6:29 pm 5 feeding no juv. some
cooing; + 1.

12 June see scrub jay acct. 10:15 juv feeding
hand on tail, no molt. not ad. like & not
fledgling.

14 June 2 in 9:45 am

15 June pairs in all day 3:17 pm RFF, alone

16 June 8:48 am late juv. no central tail
feathers here = handed tail still small
and ragged. alone, then joined by a ♀.

Luistuan
1988

Lonaidura mac.

27

18 June, del Norte St., Berkeley, Alameda Co., CA

11:08 am two on line for 15 minutes - preening & loafing. Then ♂ flew to ledge 10' & down to feed, followed by ♀ - a pair? rather tame, in relation to me.

There is much late morning loafing - on utility line on horizontal branches - 2-5" in diam., 30-50' up and perhaps on my roof but haven't seen them there.

19 June 1:14 pm 4 loafing on line (2 pr. ?) one ♂ cooed, upright to ♀; 2 are preening ^{near}

20 June 8:51 am 2 ad. & 2 late juv. in different stages of molt.

29 June 4:17 pm pair feeding alone, ♂ was cooing. A molting juv. in this a.m.

1 July am RFF in to feed - alone; also alone is a juv. in molt to ad. plumage - looks very ratty.

2 July 8:34 am 2 pair & the advanced juv. feeding

4 July 9:33 am RFF in to feed; it is aggressively chasing a ♀

8 July 12:20 pm ♂ tried to copulate with ♀ on line - didn't work. No preliminaries

9 July 2 sailing to w over tops of trees 11:22 am a juv. in almost ad. plumage - thin & small

11 July RFF in with ♀ 10:20 am cooed once but aggressively jumped at her & pursued.

16 July 10 am a small juv. plus - no feather edging, no maculations on wings.

Then. in alone. 4:25 pm ♀ with 2 juvs - maculations one slightly smaller.

19 July a new dark juv. come in with 5 others.

20 July 8:24 am - alone juv. & a smaller ^{one} in molt

Christman
1988

28

Zenaidura macr.

20 July, del Norte st., Berkeley, Alameda Co., CA
9:25 am 3 ad. feeding, one cooing.

yet another imm. in molt — its a gray
tan — former molting one had chest-
nut scapulars. 11:45 pm 9 in feeding
— there are 3 imm.s. 6:21 pm heavier fog
13 feeding — 5 are juvs. at different ages &
plus 4 or 5 in molt of same sort.

22 July 12:58 p sunant. ♂ cooing &
jumping at ♀

27 July 7:41 pm 7 feeding including 2 juv.
one in heavy molt.

1 Aug 3 in ♂ aggressively cooing/cooing
the third bird is handed with aluminum
band.

10 Aug 3 feeding, one (a ♀) with no tail
& what looks to be a juv. in first
ad. plumage — small & non-typical
ad. feathering/pattern on wing.

11 Aug 3 ± pm 2 juv. darker than most, well
feathered no molt;

13 Aug juv in at 3:18 pm lightest, small &
thin even head feathers are edged light.

14 Aug 2:52 pm 5 in feeding — one is an
adult size but juv. plumage on wings.

15 Aug 7:15 am heard a simple "who" call
repeatedly outside — one small dove,
looked to be a juv. into ad. plumage.

16 Aug left P.A. about 10:45 am — sunny
early — 8 ± home at 11:45 clear, cool
12:30 pm 2 doves, ♂ cooing.

17 Aug 3:30 pm 7 doves feeding including 2
juv. — no molt — been here before lately.
Then another juv. in — it is molting
only 1 tail feather.

Christman
1988

Zenaidura m.

29.

19 Aug., del Norte 20 Birds day, 11 am del Norte

4:37 pm 10 doves feeding 4 juv. all in molt
20 Aug 10:31 am cloudy - 12 feeding, most
in molt and NO juv. RFF came in
briefly.

22 Aug. 11:48 am RFF feeding with ♀ who is
in heavy head & contains f. molt; RFF a ♂
tail only. 2 others: a ♂? & a ♀, no doubt
molt in them - juv. late?

29 Aug about 2 pm a pair & two juv
one heavy in molt, other nat. 4 pm
6 including 2 juv. (not same birds).

31 Aug 2 juv. feeding at 2:30 pm one has
no tail feathers - another one in heavy molt

6 Sept 8:40 am RFF in to feed.

7 Sept 8:43 am " " " " ; other adults
and juv. - everyone is in heavy molt.
except one almost chestnut ♂.

10 Sept 8 am 10 ± feeding all in molt. RFF
here also.

17 Sept 7:30 am doves in feeding; calls
- a dominant "who-coo", not the short
sharp "who" heard last year. Some aggressive,
lowered head chasing. This like last
year - are these first year ♂♂ learning
how to "coo".

19 Sept 9:32 am RFF in now to feed, as yesterday

29 Sept 4:14 pm 96° F clear 2 pr. (2 ♂♂, 2 ♀♀)

♂♂ gular fluttering for cooling; not ♀.

Doves in to feed at first light.

30 Sept 8:35 am - a ♂ & ♀ in feeding with
one juv (no molt) & a molting bird (age ?)

The juv. charged & hit molting bird with
wings; very aggressive. Two ad into NW elm

Christman
1988

38

Zenaidura macr.

30 Sept. del Norte St., Berkeley, Alameda Co., CA
10 ft. from top on bare 1" branch.
First one than the other flew down to
feed with the 4 feeding. House Finches
also use this tree now as an observation
point before coming in.

1 Oct 9:56 am pair in feeding with a
very small juv. it appears to be a fledgling

3 Oct. 3:42 pm pair in with a juv. in heavy
molt all over, very flighty.

4 Oct 5 doves in briefly at 8:50 am. none in.

5 Oct 9:20 am fog none in now the same
resting on bare cedar branches 45' up. at
dawn - 7 ± am at least 8 in feeding.

9:36 am 2 Bl. towhees in feeding, then 4 doves
to line & 3 to landing to feed after 5 minutes
more came in. Then suddenly all flew
- it looked like 10 or 12. 5 (2, 2, 1) in top
of NW elm & more in cedar. More doves
today! 1:36 pm 4 in feeding = 1 ad, one
small post-juv. in a molt and 2
juvs. of different ages & size. 1:40 pm
11 are now feeding.

11 Oct 7:13 am about 20 feeding on landing

12 Oct. 7 in feeding - 4 are juv. in molt

18 Oct 3:45 pm 3 juv. & 2 ad. feeding

21 Oct 1:23 pm 6 - only 1 juv.; only 1 earlier

22 Oct first dove came in at 7:03 am

fog just light 7:15 dawn to feed - were
17 which included 2 young juvs. they
at 2 cups of feed by 7:40 ± 10:07 am single
juv. in it is in heavy molt, including head.

25 Oct. 10:17 am fog cool. 9+ with 2 juvs. one
of which is molting.

Quistman
1988

Zenaidura macr.

31

29 Oct. del Norte St., Berkeley, Alameda Co., Cal.
6 in feeding at 9:36 am. several adbs.
are molting - one juv. in heavy molt
from buff edged feathers on wings to
rich chestnut with spots.

31 Oct a juv. found dead under one of the
front down stair windows under porch.

2 Nov. adult RFF into feed with some others.
just did see it in awhile.

3 Nov 6:35 am light drizzle; about 20 feeding
they flew off abruptly. 10:50 am 7 flew in
all adults & all rich chestnut color.

3:12 - 12 in feeding incl. RFF,

15 Nov 4:30 pm 7 feeding, incl. one late molting Juv.

20 Nov. light drizzle at dawn - about 20
- they sounded like a heavy rain on roof
several times in p.m., especially at 3:50
about 20+ came in. A scrub jay landed
near them which didn't speak them.

21 Nov see Accipiter cooperi account.

26 Nov 4:05 pm 15 in, 6 on line 10' from house.
Only one shows evidence of a molt.

1 Dec. RFF in feeding with a big Fox sq. two
others with him - one is "who"-ing quite
a bit - all three looked adult plumage.

5 Dec 2:58 pm cloudy 7 on line (Fox sq. is in feeding)

8 Dec 3:39 pm 14 doves in feeding.

16 Dec 3:30 pm scattered doves RFF feeding
with 2 other adults - a series of quiet plaintive
"ooos" which is a variant of the fall "whos".

17 Dec 11 in feeding at 3:50 pm. all full ad.
plumage. One has a patch on rump & breast, etc
seem scruffy - hit by hawk or shot?

21 Dec cloudy, recent rain, 2 feeding in NW elm

1988-89

Zenaidura macr.

21 Dec., del Norte St., Berkeley, Alameda Co., Cal.
60' up on S side on $\frac{1}{4}$ " branches
on edge of canopy - There for at least
45 min.

22 Dec steady moderate rain at 8:30 am
15+ doves feeding on landing in up to $\frac{1}{2}$ "
of standing water & picking up millet seeds,
etc. under the water.

28 Dec 3:30 pm 55°F clear about 15 in feeding
& ♂ with full neck, erect head, jumped &
crawled & (who retreated) and one rather
weak, incomplete "coo".

2 Jan 2:33 pm about 6 in feeding; a ♂ chasing
♀ with several authentic "coos"

4 Jan 4:02 pm 9 in feeding - one "coo"

5 Jan 3:59 pm doves flying in from cedar & oaks
and overhead. - 13 as of now.

10 Jan one in NE dir for $\frac{1}{2}$ hr +, it flew in
directly & then reversed to line 12' from house
immediately joined by another who landed
next to it & began cooing - first bird
flew 5. other (♂? still in place for 30 sec &
then flew. have heard racing several times
to day. This is fairly early = ? Early Spring?

11 Jan clear, cool a little wind last night.

13 Jan 7 am - just light, about 8+ in feeding
one ♂ cooing & having display 2:46 7
doves flew in including one cooing.

17 Jan 4:43 pm 7+ feeding one has a huge gash
on neck & all feathers disarranged - ♂ size
feeding ab. a wound, but bird acts ab.

18 Jan 3:58 pm clear almost warm; first sailing flight
from cedar this year

19 Jan 4:30 pm 13 in feeding one ♂ charging & cooing

Christman
1989

Zenaidura macr.

33

20 Jan., del Norte St., Berkeley, Alameda Co CA

7:30 am No doves in! The landing was completely covered with dove feathers - tail, barb & secondaries. Went down stairs just before 5 year-day afternoon - so something got one then. Even now at 10:57 am a feather coming down from roof. Was it hit on roof? Don't see any about (was out 8-10:30) 3:34 pm a little ♀ in feeding - the first dove I've seen today.

4 pm ♀ feeding + Br towhee & GC Sparrow

23 Jan in first time seen at 4 pm; now clear.

26 Jan 11:26 am only one dove by so far today. No early a.m. feeding now - the possible presence of a predator above - has this made them frightened of the site?

27 Jan after flew over now in to feed. 3:17 pm one in top of NW elm. noisy 4:20 pm 6 in feeding 4:51 coming from cedar; down Hopkins = sailing

28 Jan one dove in about 1:30 no others.

29 Jan 7 am light, heard one dove come in either to landing or roof. in a few minutes it flew with a thud on roof. The fox sp. was in 20 minutes later. What got the dove? Is it about each a.m.? The doves are not coming in now. 11:27 am 1 dove in. 4:30 2 came in none since am.

30 Jan 6:50 am one dove in. 8:45-9 am 10' below top of ~~apex~~ NW elm, then it flew to roof. Food consumption way down; 9:03 am 2 flew in to landing.

31 Jan several doves in to feed late in pm. lag

Wistman
1989

34

Zenaidura macr.

1 Feb, del Norte St, Berkeley, Alameda Co CA
4:50 pm one dove feeding - one of four
have seen today. - shy - flew (real goosey)

2 Feb. 7:30 am 2 doves feeding. 8:39 one
in

6 Feb 8 am one; at least, in to feed. windy

7 Feb 3 pm sunny, cold breeze 3 in feeding.

3:55 total of 8+ in near Cedar.

9 Feb 3:34 pm clear, RFF in to feed with 3 others

10 Feb 3:58 pm sailing flight; E-W then ^{around}

11 Feb several about this late pm. lots of cooing

12 Feb 4 pm clear, breeze, one - first to day!

13 Feb 2:42 pm one flew into cedar for W. ^{clear} slice

4:06 one, then 2 more doves in to feed. 4:20 - 2 on
line; ♂ came in missing lots of feathers Lt. breast.

4:32 pm RFF in along feeding with one vocal jay

16 Feb 4:05 pm 4 in one cooing 1/2 clear 1/2 in

17 Feb 4:20 4 feeding including RFF.

21 Feb 9:35 am 4 in feeding, including RFF.

25 Feb 4:37 pm 2 pr. feeding including RFF

who is calling softly "who". There has
been cooing in the last 15 minutes. close by.

4 Mar 9:21 am overcast, light sprinkles, 3
in feeding on landing.

11 Mar 1:51 pm ♂ cooing on landing - the
number of doves still about is down -
no more than 2 pr.

13 Mar long dove in at 3:26 pm it sure looks
like an advanced juvenile, but not sure
for color on neck as an ad ♂! was with ♂ ♀
4 pm 4 in feeding.

21 Mar 2:27 pm ♀ resting on ledge breast on floor
RFF flew in landed 10" away; head up charge
(no call) ♀ flew - he went down to feed.

Christman
1989

Zenaidura macr.

35

25 Mar., del Norte St., Berkeley, Alameda Co., Calif

SEE *Accipiter striatus* acc't

There has been 4-6 in feeding; one in NW elm then flew high over house & returned - probably an advertising-gliding flight. RFF in with ♀. 5:14 3 feeding; 2 on line
17 Apr 4:33 pm feeg RFF in with ♀ - he cooed & cooed very aggressively she retreated, then he went down to feed. There are several pairs now coming in, no young yet.

18 Apr 11:27 fog am. a ♂ with ruffled feathers on back - medial scapulars in to feed with ♀ cooed & swallow nerv once. 3:55 pm clear - a pair came into feed with the first fledgling I have seen this year! all relatively tame.

19 Apr 10:02 am some cooing on roof & one flew W & did a soaring flight.

20 Apr 3 ads in at 8:30 am they leave cracked corn & wheat. 9:59 am juv. in alone feeding, taking smaller seeds. 10:03 ♂ with neck feathers missing in & chased juv; then a ♀ in. 1:20 pm juv. in alone - rather tame. 4:43 pair feeding & on ledge both preening. ♀ heads over & gently perches ♂ wing with tail quivering. He feeds again, then both preening (pseudo?).

21 Apr 9:12 juv. in alone feeding, others have been in to feed. Later: juv. in with a pair - ♂ cooed & displayed. 4 pm - in gutter at street - in front of my house under oak: a carcass of a juv. dove - not fresh, no wet meat - present 2 legs; 2 wings, one

Christman
1989

Zenaidura macr.

36

21 Apr., del Norte St., Berkeley, Alameda Co., CA
with primaries & secondaries, other
only primaries have buff edged coverts,
one leg & axial skeleton including pelvis,
- crop area - NO tail area, viscera,
head & neck & breast or keel. This
doesn't look like a cat bird - is it
a nest mate of juv that did come in
the 18th? Is it the prey of the cooper hawk
last Sunday \pm . 4:51 - 6 doves feeding -
no juv.

24 Apr. 8:45 am σ with last neck feathers
coming upright - jump display to ϕ the
flew. 9: a juv. in molt! scapulars are
ad. type but secondary coverts have
buffy edges; ragged molting head &
neck - it was on line & didn't come
in to feed. 10:09 RFF in to feed.

29 Apr. RFF in at 9:01 with a hand-tailed
pigeon (?) at 9:07 a ϕ & juv. others have
flown.

30 Apr. one dove feeding at 9:48 am and
very sooping wet bird.

4 May 7:07 pm 75% high clouds 2 juv doves
feeding - one very ruffled up feathering
plus at least one ad. RFF in at 3 pm alone

7 May 4:10 pm fog, 3 came in & fed, then 2
more. just about first time to day - first
3 are resting; one humped up on feet; on hunched
down & feathers ruffled - ruffled one resting
on belly - wing under tail, sleeked down.

8 May 3:30 pm fog - RFF in with ϕ he did a
jump - swallow throat at ϕ who flew
then he cooed once & flew to roof.

Kristman
1999

37

Zenaidura macr.

13 May, old route S.E. Berkeley, Alameda Co., Cal
9:45 am ♀ & a juv. in feeding.

14 May 10:40 am 2 ♂ at food - big
fight! Flying about each other &
wing swats (loud!).

15 May in off & on 7 pm = a shed secondary

22 May 2 pm RFF into feed - alone. then a ♀

23 May 8:46 am 3 in; ♂ chasing ♀ (driving)
& cooing, both flew. 9:30 am ♂ in, shy &
corner of mouth dark = cooing = feeding
young. 1:36 pm an older juv. wing coverts
tipped, some greater sec. c are a rich brown
& still a light stripe bill, under eye to
past. auriculars. 7:34 pm 4 on line, one feeding
including one juv. no molt of new feathers.

7:45:5 am line = 2 juvs. no molt!

25 May 11:16 am 2 ad. ♂, one is RFF and
another - ? is making "who" calls.

26 May 6 feeding with a bandtail at 7:29

27 May 7:35 pm 2 pr + 1 and a juv. with HF
dares in all day; several advertisement flights
a pair at 6:30 on line = ♀ preening, ♂ resting
some cooing in afternoon.

1 June 7:50 pm pair with a well advanced
juv. - several months old by size, well fed
size of ♀

4 June 8 am two juvs. a small one which
is molting & a larger one of straight
& good juv. plumage. 6:54 pm 2 on wire (line)

12' from house with no preliminaries they
copulated on the line! Now resting, no coo.
6:57 ♀ feeding, 2 on line (resting)

5 June 3 ad. at 6:53 pm one an obvious male
is "whoing" repeatedly only corner of mouth moving.

this tran
1989

38

Tenaisma mac.

6 June, ~~del Norte St, Berkeley, Alameda Co., Cal.~~

3: & 7:30 pm = at least 6 birds on line
at feeding - not including juv. & RFF

6:47 pm 1 dove including 1 juv. molting into
ad plumage - no RFF. They are pretty "love".
i.e. they see me at window - only one flies.

8 June 3:30 pm ♂, ♀ & an ad raised juv.
in to feed - juv. in alone later missing
some tail feathers - good plumage, no
body or wing molt.

13 June 8:35 am 2 juvs with 2 adults.

14 June 4:36 pm ♂ on ledge bill open - preening
draped wing, exposing back, flanks & rump.

15 June 8:45 am fog. 3 in feeding, big ♂ &
2 juvs. - a smaller one in molt with
some light chestnut secondary & wing
covert feathers & a larger one - dull
juv. plumage. There is another with
more pronounced stripes on head -
so at least 3 juvs. 7:18 pm fog. RFF & ♀
in to feed - long time no see!

18 June 1:07 pm landing = 3 molted secondaries
& one tail feather - left mid size.

26 June 12:38 pm breezy fog. one on pole up
at circle - took off & several sailing flight
100' over trees, etc. 6:56 pm 4 ♂ (blue on head)
feeding & one late molting juv (♀ by size, etc)
one towhee juv.

30 June all RFF in for first time in awhile - has
been incubating? 10:10 am.

8 July 4 pm 89°F in sun hazy day. 2 doves, N side
of oak in side canopy in open spot in shade
preening & resting, 9' from top of tree.

Christman
1989

Zenaidura macr.

39

21 July

8 am a small late juv. with almost full replacement of juv. plumage - ad. feathering is a chestnut. 8:56 am juv. no molt - in good feathering at 6:30 about 10 feeding - some quiet "who" calls, 9:22 am 2 juvs. in alone - one small & flighty; other larger light coloration and feathering rather rough, especially neck. 11:31 am RFF feeding with ♀ & making the quiet "who" call - lower mandible barely moving with head erect. This is an adult ♂. And corner of mouth is dark - feeding young?

22 July 7:04 pm 12 feeding - fog. 2 juvs - one molting other nat. all feeding acidulantly.

28 July 9:53 am clear; more juv. rather ratty plumage & small. feeding with a lone ♂. It has almost black rump & primaries.

9:50 am banded a ♀(?) that got caught in squirrel trap. L/O range.

30 July RFF in feeding & looking alone at 8:44 am

1 Aug 9:18 am two juvs. feeding with a pair that are darker than usual - neither juv. in molt. Twins - ?

4 Aug 3:42 pm 2 ad & 2 juvs feeding one of which is in chestnut molt) then 2 more ads.

26 Aug RFF in to feed at 4:30 pm, + a pair with an older juv. a pair in earlier - ♂ rushed head up & one brief as to hared ♀.

July 12

Left at 8:00 AM. Arrived at 10:30 AM. The weather was very hot and sunny. We went to the beach and swam. The water was very warm. We also had a picnic on the beach. The food was very good. We then went to the museum. The museum was very interesting. We saw many fossils and other things. We then went to the park. The park was very beautiful. We saw many flowers and trees. We then went to the lake. The lake was very calm. We saw many fish and birds. We then went to the river. The river was very fast. We saw many rapids and waterfalls. We then went to the mountains. The mountains were very high. We saw many peaks and valleys. We then went to the desert. The desert was very dry. We saw many cacti and snakes. We then went to the forest. The forest was very green. We saw many trees and animals. We then went to the city. The city was very busy. We saw many people and buildings. We then went to the country. The country was very peaceful. We saw many farms and fields. We then went to the mountains. The mountains were very high. We saw many peaks and valleys. We then went to the desert. The desert was very dry. We saw many cacti and snakes. We then went to the forest. The forest was very green. We saw many trees and animals. We then went to the city. The city was very busy. We saw many people and buildings. We then went to the country. The country was very peaceful. We saw many farms and fields.

July 13
Left at 8:00 AM. Arrived at 10:30 AM. The weather was very hot and sunny. We went to the beach and swam. The water was very warm. We also had a picnic on the beach. The food was very good. We then went to the museum. The museum was very interesting. We saw many fossils and other things. We then went to the park. The park was very beautiful. We saw many flowers and trees. We then went to the lake. The lake was very calm. We saw many fish and birds. We then went to the river. The river was very fast. We saw many rapids and waterfalls. We then went to the mountains. The mountains were very high. We saw many peaks and valleys. We then went to the desert. The desert was very dry. We saw many cacti and snakes. We then went to the forest. The forest was very green. We saw many trees and animals. We then went to the city. The city was very busy. We saw many people and buildings. We then went to the country. The country was very peaceful. We saw many farms and fields.

Kristman
1989

Zenaidura macr.

40

28 Aug

8:34 am 6 feeding + several flying
only one juv. which is in good
non-molting plumage & large.

2:29 pm clear, 4 ad. and 3 juvs which
are all older & in good plumage (juv. i.e.)
29 Aug. 8:45 am ten in feeding, including
RFF and a small scruffy juv. which
is molting to a nice chestnut on back
and testicles. 9:53 am 4 ad. on line
all preening - one scratched head under
the wing.

31 Aug 6:30 & 8:49 am 12 doves feeding.

8 Sept 8:30 am fog - 7 feeding including one juv.
with no molt - a delicate bird - ♀; 11:05
am 8 feeding including RFF & 2 juvs.
all adults heavily into molt. neither
juv. - one small - delicate (above) other
is larger - a ♂ with heavy maculations

13 Sept yesterday a.m. there were about
14 in feeding & only 1 or 2 juv. not in molt.
In the past week doves have been
pecking to bark, etc in the elms more
than ever before. W. & S part of NW elm
more branches are bare of leaves -
on branches 1" to 3+" in diameter.
They also like neighbors TV antenna
(to S.); my roof and cedar.

15 Sept 7 am at least 20 feeding; fog.

28 Sept 1:31 pm 2 ads on wire (one in molt)
with 2 unmolting juvs. (one with very light
cinnamon stripe - he flew up). 1 ad on
landing. another juv. in earlier - molting &
very slim delicate.

Christman
1989

Zenaidura macr.

41.

29 Sept

4:05 pm clear view & feeding - a scrub j. feeding on bread 1' from a juv. it retreated 1-2" then hunched head down to it - tail horizontal & fanned tail at least $\frac{1}{2}$! Never have seen this behavior before 4:18 17 feeding incl. 3 on line 8' from house (10" & 1' apart).

8 Oct 7:10 am clear, clear 22 feeding with 2 small juv. - both molting. RFF included. This many feeding sounds like a rain!

9 Oct 8:30 am a young small definite juv. in feeding alone. Think this is flagging - first in several months.

11 Oct 4:49 pm clear a new juv. with a ♀

12 Oct none in from 8 am to 11 am - fog then 10 feeding - no juvs. some "who" calls.

13 Oct 9:26 am 12 feeding one late molting juv. +. Doves have been loafing in mid section of NW elm for several weeks mainly on 2" \pm branches that are close to horizontal. This is a change from the near cedar - and accomplished by the leaf fall among the elms.

14 Oct 10:19 am pg 4 or 5 feeding. Big ♂ RFF hunched upon ledge - calling repeatedly "who" rather softly - body moves slightly; 5 - including a new juv. very young. RFF only one calling. 1 bird a richer almost chestnut color - sex ? not sure. a smaller ad. with some tail molt - central tail feathers. Then 11 doves feeding.

20 Oct RFF scratched head under wing!

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Christman
1989

Zenaidura macr.

42

24 Oct del Norte St., Berkeley, Alameda Co., CA
13 feeding at 1:15 pm

25 Oct several doves in elms in sun before
9:25 am when about 8 flew to my roof on
line 6' from house.

26 Oct. late coming in 9:10 am about 8
and only one still in malt - a ♀? which
is a deeper chestnut red than any others.

27 Oct 10 am 8-10 in feeding; were in 3 clus.

30 Oct 3:54 pm 15 feeding; one molting juv.
3:58 pm 19 feeding

2 Nov doves are spending more time in
mid to upper $\frac{1}{3}$ of elms near that trees
are bare. Doves not on top exposed areas
of trees - but $\frac{1}{4}$ " to $\frac{1}{2}$ " \pm limbs & limbs
more in middle of trees — protected
by branches & twigs.

3 Nov 3:20 pm 19 feeding - one molting juv.

11 Nov 3:35 pm 16 feeding no juvs. 4:04 pm
I can see 10 in W elm on 1" \pm branches, all
preening & within the bare branch canopy - will
they roost there? 4:30 near sundown, doves
still in place in W. elm. no preening or roosting

12 Nov. low fog 51°F at 9:22 am doves feeding
at 6:30 -

17 Nov about 25 feeding this one came at 3:30
3:45 doves to 30; no juv., one molting. Some
must be new for some are darker chestnut
not the usual pale.

20 Nov 8 am - 20 doves feeding with 1 sparrow

21 NOV 6:50 am 20+ in feeding in heavy fog

22 NOV 8-8:30 am 20+ in W elm

27 Nov 11:38 am in earlier to feed, now very
windy and none in evidence.

1989-90

Zenaidura mac.

28 Nov., del Norte St., Berkeley, Alameda Co., Cal.

9:30 am very windy. 3 am 3" lumps
halfway up NW elm (60') while the
branches swaying.

1 Dec. 3:34 pm clear about 15 in feeding.

5 Dec broken fog 2:42 pm 12 feeding.

10 Dec 3:47 pm clear at least 25 with Fog.

14 Dec 3:33 p. 25 doves feeding jay scared
them.

19 Dec 7:30 am one cooed several times
have been 20+ in late early afternoon

24 Dec at first light one cooing nearly

27 Dec 8:55 am fog. has been one high in
NW elm - it flew 5 then W gaining height
then set wings & sailed to N & was join-
ed by another sailing N also.

28 Dec 7 am one cooing while feeding.

30 Dec 7:16 clear, no wind. warning flight to W.

4:26 cooing from doves in near cedar. a dove
flying about with right half of tail missing

1 Jan 2:39 pm 4 feeding swimming birds
all flew into oak - from low up onto
6" branches for protection.

3 Jan 9:56 am 4 doves feeding - one chased
off 2 which landed 10+' away on line &
is feeding & chasing another - a ♀?

8 Jan 9:50 am ♂ courting & scolding ♀ on
horizontal limb 60' up in NW elm & flew

16 Jan a ♂ cooed & charged ♀ briefly.

at 2:39 - coming into feed. banded
after doves.

19 Jan other day a dove landed on feeder
& couldn't get a foothold, much flapping
of wings. Is this a first?

Christman
1990

Zenaidura macr.

44

20 Jan., del Norte St., Berkeley, Alameda Co.
11:45 since 9:30 am two on a
horizontal 3" branch 60' up in NW
elm - mainly loafing after eating
my food. Then 11:30 - 11:35 a bout
of preening - starting by 1 - a ♂? -
2' from other one, a ♀?; ♀ approached
- both pecking at back, scapulae &
medial secondaries. Each approached
the others. One brief clasp of bills;
no attempt of ♂ to mount ♀, nor
any swollen web casing.

21 Jan 10:30 2 in ~~at the~~ same place in
NW elm, in sun, preening. 2 others 12' away.

25 Jan 8:30 am 2 sailing low & landing together.
11:27 am one is on the Fox sq. nest - the lower,
nearer one in NW elm. approached by walking
along limb 2" diam. 11:49 it sat on nest
top awhile. Now 2 24" apart on 1 1/2" branch
70' from & above nest. Is this a pair -
is one same bird which sat on nest?

12:58 pm 4 now resting in NW elm. 3 on one
2" branch - horizontal & one 7' above.
distance between the 3 = 36", 48". 4:05 one
sailed over head.

5 Feb 9:07 am one from beyond elms
to NW climbed then sailed over elms
& into elms. Then a second from S
of this area same & landed near
the first. [9 in W. elm at 4:08, none in
NW elm - they'll be in to feed soon.]
4:35 pm overcast: 18 ± feeding - a ♀ with only
2 or 3 tail feathers & none of the brown
- tan, centrals. One charge & brief "coo"

Christman
1900

Zenaidura m.

44

8 Feb., del Norte St., Berkeley, Alameda Co., Calif.
4:30 doves feeding - one ♀? has a small handful of feathers on upper rump missing for feather bases of mid-rump show.

11 Feb 3:36 pm overcast - 7 + doves in NW elm - large 3" branches in mid section.

2 following each other close - close, one flies, etc. another 2 among 4 or 5 one briefly attempted mounting - calling.

16 Feb 9 am fairly heavy rain, 2 in NW elm, 60' up on horizontal 2" + branches, both have wings partially open & arched over backs (can see light ventral lining of wings). Why this in a down pour? 9:30 am light rain - 7 feeding one took a bath in puddle then on ledge preening. 9:41 am one on ledge on Lt. breast with right wing up. 12:16 pm 7 on line - 4 to 12' from house all preening (a B.C. touch-see among them - individual distance is about 5-6" including the tail-fece).

17 Feb 2:27 pm very light rain - 2 doves capulated in NW elm - high up.

19 Feb 19 feeding at 3:49 pm clear, same charging.

20 Feb 2:21 pm overcast 2 pr. in mid part of NW elm 1 pr preening; other one 3' from lower Fox sq. nest preening, other is sitting on the nest! /

2 Mar 1:48 pm light rain, 6 perched up on 1" + branches high up in W. elm. Have fed off & on during day. brief cooing over. 3 pm total about is 13+.

Christman
1990

Zenaidura macr

45

4 Mar. del Norte St. Berkeley, Alameda Co., caly
4:25 pm 7 feeding; 2 higher in NW elm. one ♂
casing & driving full throat.

8 Mar 9:45 am 2 flew into landing, ♂
cased & charging ♀ until she flies
off to cedar, then 3 to line - 16' from
corner of house - 2 6" apart 28" from house.
There have been sailing flights several
times a day of late.

10 Mar a pair in NW elm & new on line 10' from
house - ♂ aggressive, casing, ♀ flies. 4:25
suddenly 1/2 doz doves flew in to feed besides
pair on line & another between them. 4:30
10 feeding with Tawhees, juncos & H.F.

11 Mar. 11:41 am. 2 (a pair?) feed the ♀ has
absolutely no tail feathers! 4:28 6
doves, etc suddenly came in - one has 1 white
tail feather 1+ inch long & only several coverts
brown.

13 Mar 5:29 pm 6 feeding one flew when they
saw me - getting tame!

16 Mar several times Akara doves casing

21 Mar 4:16 overcast a ♂ tail feathers -
lats barely 1/2" beyond wing tips, and
on left ^{flank} a big disarrangement of
feathers, rump feathers intact. One coming
charge display.

22 Mar. 8:44 am one, first today, from
cedar, glide to old spot in up St.
elm - 50' up on 1 1/2" branch. 8:50
it flew down, to S. - into Pitos.?
9:12 one in feeding

23 Mar 4:25 pm clear 4 feeding, 1 casing ♂ & one
with 1" tail feathers, rump ab.; left flank
ruffled

Christensen
1990

Zenaidura macr.

246

24 Mar., El Norte St., Berkeley, Alameda Co., CA.
4:30 pm clear, 59° 13 feeding; 1 ♂ cooing
5 Apr doves have not been in evidence
much in last several weeks - have
seen 2 at a time flying or an odd
one feeding. They should be nesting
- ? 9:02 pair in ♂ feeding, ♀ on line 14'
from house.

7 Apr 12:30 pm so far today only 2 doves,
a pair have been about. Where are the
2:04 pm 1 sailing flight S-W to N- 3:52 one
on line, another in ♀ is cooing & adloaving
some false preening; now both relaxed.
Some pr. as in display flight? 3:57 ♂ flew
to ledge to feed - this is not same pair
in earlier (♂ of other pr. had many displaced
feathers on rt. shoulder & missing feathers)
8 Apr saw 1 or 2 doves this am. Where have
they gone? Probably nesting or is the
presence of hand-tails enough to keep
them away?

9 Apr. 10:40 1 dove 10' from top of NW dm resting
where are the doves? 4:08 1 in feeding ^{alone}
4:30 2 dove feeding 4:49 2 flew into mid-
section of up st. dm - then another so
a pair & a single tan. 6:37 pm 1 dove in
between 2 tangles 24" apart flipping wings
no action.

10 Apr 8:36 am 1 on line 10' from house,
earlier one sailing flight of 2. 9:10 3, 2 flew
into lower part of up st. dm followed by
a single, the 2 flew. Now much cooing
1 pm 2 in to feed briefly.

11 Apr 9:18 am 1 lone dove feeding.

Zenaidura macr.

- 11 Apr. ~~del Norte St, Berkeley, Alameda Co~~
(cont) 10:13 one lone dove in display
flight SW & W higher than usual.
10:16 now 2 flying about neighborhood
- 12 Apr. coming at 9:45 am, 10:13 2 on roof
W to high in up-st elms. 10:52 am - one
in W elm 5' from top on 1" branch. Only
3 about now.
- 13 Apr. 2 feeding at 8:33 am, one is whoting
& charging other. 6:50 2 in to feed, much
short dashes - flights - a hummingbird
- 14 Apr. 9:05 am 2 doves to line, brief pale
greening of scapulars. The ♂ has no tail
feathers!
- 15 Apr. in 2's, etc. at 6:30 5 in feeding.
- 16 Apr. 1 in early pm 4:07-2 W-E are sailing
flight. This I believe is lowest dove # in 3 yrs.
4:15 1 on line 6' from house (♂?). 4:18 another to
line, first one on ledge while Foxg is feeding
this second one has iridescence on neck!
same size, bandtail on line then ledge
heavy molt, 4:29 2 on line, 1 feeding with
sq. & 2 band-tails.
- 17 Apr. 9 am 2 on horizontal branch in W
elm 8' from top beside each other cooing
- 18 Apr. 10:19 am fog. ♂ on ledge, 1 on line above
& 2 flew by low. Number of doves is down this
year. 4:14 1 in feeding. 4:33 2 from NE to cedar 40', ^{trunk} near
4:53 2 on line ♂ & ♀ flew NW, 2 in sailing flight 150
yds to WNW & another close, N to cedar. 7:09 pm
4 in feeding, rather shy.
- 19 Apr. 8:48 am 2 have been flying about, then to ^{roofs}
21 Apr. fog most of day. Mainly doves flying over. 5:00
2 on line; 1 in W elm high.

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are derived from the principles of relativity and the laws of classical mechanics.

In the second part of the paper, the author discusses the application of the theory of the structure of the atom to the problem of the structure of the nucleus. It is shown that the structure of the nucleus is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are derived from the principles of relativity and the laws of classical mechanics.

The third part of the paper is devoted to a discussion of the application of the theory of the structure of the atom to the problem of the structure of the molecule. It is shown that the structure of the molecule is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are derived from the principles of relativity and the laws of classical mechanics.

In the fourth part of the paper, the author discusses the application of the theory of the structure of the atom to the problem of the structure of the crystal. It is shown that the structure of the crystal is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are derived from the principles of relativity and the laws of classical mechanics.

The fifth part of the paper is devoted to a discussion of the application of the theory of the structure of the atom to the problem of the structure of the solid. It is shown that the structure of the solid is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are derived from the principles of relativity and the laws of classical mechanics.

Christman
1990

48

Icthyophaga nuda

24 Apr., del Norte St., Berkeley, Alameda Co., Cal.
9:20 am the first juv. of year in house
(was with 5 band-tails, tho' to one
side). Buff tipping, esp. scapulars,
tail replacement. Small delicate -
not a recent fledgling - rather
advanced.

25 Apr. 2 in at 9:12 a large aggressive ♂
feeding - twice a smaller one (? ♀) was
on landing but ♂ charged it & ? ♀ flew
12' away on line. Have seen several
fly overhead elsewhere.

26 Apr. 2:41 1 has been on 2" horizontal
branch 50' up shaded by branches-leaves
overhead. One from NW swung around
& landed 20' away. Then latter flew to
within 1' - both lots of preening. 2:43
3" apart - preening back & scapulars -
has been same cooing. Another down
was high in W elm. 2:46 1 disappeared.
- now 1 on landing, then another. One in
elm still preening. 6:36 cooed a Juv = banded
Rt White very light wt.

27 Apr. one or 2 pair seen & to roof in a.m.
11:09 a ♂ with no tail & back scumpled, with
♀ a band-tail came in. 1:30 + 2 in, seems
to be a pair; flew to NW elm. 2:06 cooing near
ly. 2:55 pm 2 briefly on N landing - ♂ head up
etc. cooing ♀ flew N, he followed. 3:22 pm
pair on line he cooed, saw me flew NW -
the ♀ has only 1 or 2 tail feathers. 2:24 2
flew to line, 6 & 9' from house.

28 Apr. 7:45 am a pair & juv. Rt white
feeding

Whistman
1998

Zenaidura mac.

49

28 Apr. del Norte St., Berkeley, Alameda Co CA
4:30 pm juv. Rt white flew into front window, roared & on light pole over lower porch - steps 15 min. then up to landing.

29 Apr ♀ with unbanded juv. dark almost chestnut color with some sign of molt, not as small as others. 12:55 2 in to ledge - an adult ? ♀ & a juv. - no band & chestnut only inner scapular on rt. side. NOT same juv. Thus 3 juvs. 12:57 2 into thus from SE. 3:12 ad. one tail feather & juv. molting (no band) - it jumped at ad 2 times; ad flew to line 8' away followed by juv. Then 2 ads 1 & 2' away 4pm an ad. loafing in sun, scrub I landed 8" away. Have standing semi-erect, wings semi-open - folded over back, tail spread & have horizontal first time I've seen this display!

30 Apr several in July. 9:54 am. 2 on ledge looks like ♂ - ♀. - flew w. 6:50 5+ flew off. 6:55 juv. on line - no obvious molt or regrowth coloration.

1 May 8:12 am ♂ ♀ feeding 4:34 ad & a juv. feeding (no chestnut - white band, Rt leg) eating Miller's whole.

2 May 8 am 4 in to feed. 9:34 / flight display

3 May 11:01 am 2 loafing on ledge - first I've seen in today. 7:19 a pair? in

4 May 9:45 am 1 juv. w. ^{no band.} - molting about head & brown all over - not shy. now on line 5' from house. 2 ad. in about 9 am. 11:15 pair in, some cooing.

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Wristman
1990

Zenaidura mac.

50

4 May, del Norte St. Berkeley, Alameda Co., CA
7:25 pm dead 3 in feeding - all ad.

5 May 11:34 am 2 in display flight
to Naves elms. Juv in (no band
just regular brown scapulars)
no obvious sign of nest.

7 May 1:58 pm juv. & ♀ in (no band, dull
brown scapulars).

8 May 8:15 am 3 ad. feeding

9 May 9:20 am 1 in flight display. 9:28 2
flew to roof, then cedar. 10:02 2 sailing
- display flight to roof. 10:26 am ♂ feeding.

12:50 pm lone ♂ in to feed. 3:20 ♀ to line 16'
from house joined by ♂ who cooed, ♀ to roof.

[same pair?] 3:25 ♀ to seeds with a Fox Sp.

3:41 a pr. have been flying about, now a real
zig zag chase over elms - real close - & off to
S. [same pr?]

10 May 7:56 am 2 ♂♂, 1 ♀ feeding, cooing ^{saw when}
8:09 display flight. 8:18 4 feeding.

11 May 9:40 am a pair in feeding

15 May 8:38 am. a ♂ feeding, then a small
light tan juv. which ♂ chased. Some
loud cooing at 6:20 am this morning. 4:07
pm 2 juvs. in - new spookie!

16 May 8:41 1 ♂ ad & 2 juvs. are they
"together", nest mates? 10:44 am 3 ads

2 ♂♂, 1 ♀? 1:13 pm a dainty little juv.
feeding by itself. huffy scapulars stand
out from wing, esp. anteriorly. 4:36 pair 2"
apart on line. 4:46 ♂ cooing on landing -
a pair in - 4 feeding (2 pr.?).

17 May 8:24 am ♂ & juv. feeding 10:39 pair in
♂ cooing briefly.

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to the quality of the scan and the nature of the bleed-through.

Christman
1990

Zenaidura macr.

51

17 May, del Norte St., Berkeley, Alameda Co., Cal.

11:22 am juv on wire near Pittos. some
scapular-secondaries all checked in
color 12:09 pm ♂ & juv. (dull brown secondaries)

18 May 10:01 2 in ♂ aggressively courting
- chasing 12:47 pm dull brown juv. rather
ratty in appearance - with 1 ad.

19 May 8:59 3 in & courting in cedar. Between
6:30 - 7:30 am in feeding with frequent
"who-who" calls. 2:14 pm pair feeding - chasing
at least 4 more flying about & in cedar.
2:18 - 5 feeding - only 1 ♂ (nice blue head,
etc.). 2:19 now 6 still 1 ♂.

20 May 9:45 2 in to feed - only birds this am
that are not raggy yet. 6:58 pm & feeding
including 3 very drab juvs.

21 May 3:58 pm 2 ad & 1 juv. feeding (dull br)
6:54 pm 7 ad. feeding - 4 + ♂♂

22 May 2:59 pm 1 ad & 1 juv. very gray with
few almost chestnut wing coverts - beaks
molting but isn't. Fragile little bird. 7:03
pm 2 (appr.?) 8" apart on 2" branch in oak
well under (8' +) canopy. They were feeding ⁱⁿ rain.

23 May 8:19 am several doves in, including
a big ♂ with fluffy Lt. feet - haven't
seen him in a long time.

24 May 8:35 am a large juv. seems to
be molting for timing of wing-coverts
are dull gray-brown & a warm reddish
color. alone. 8:46 some juv. with 2 ad.
2:38 pm a dainty little juv. in alone. 3:09
shes back - no sign of molt. 3:19 the molting
chestnut juv. already size of an ad & no
past auricular maculation

Christman
1990

Zenaidura macr.

52

24 May, del Norte St. Berkeley, Alameda Co. Cal.
3:24 2 juvs on ledge 10" apart. 7 are mentioned
& another making an scapulars but not
medial secondaries, head pale gray. sub
(auricular spots present! (atherischekant!))
→ this one & small one are petite. Nest
mates?

25 May 9:35 am in alone, a large juv., no
sign of molt. tail seems short & inner
most coverts, immediately below the
scapulars (which are buff edged) are
a dull brown - no buff edges. sub
auricular spot. 10:30 a ♂ & ♀ in, no where.

26 May 11:31 am pair in, ♂ smaller than ♂
crashed, cawing, jump-charge & flew.
3 have been about earlier. Compare
numbers this spring to former springs.
2:40 ♂ & 2 ♀♀ in courted battle, one retreated
more.

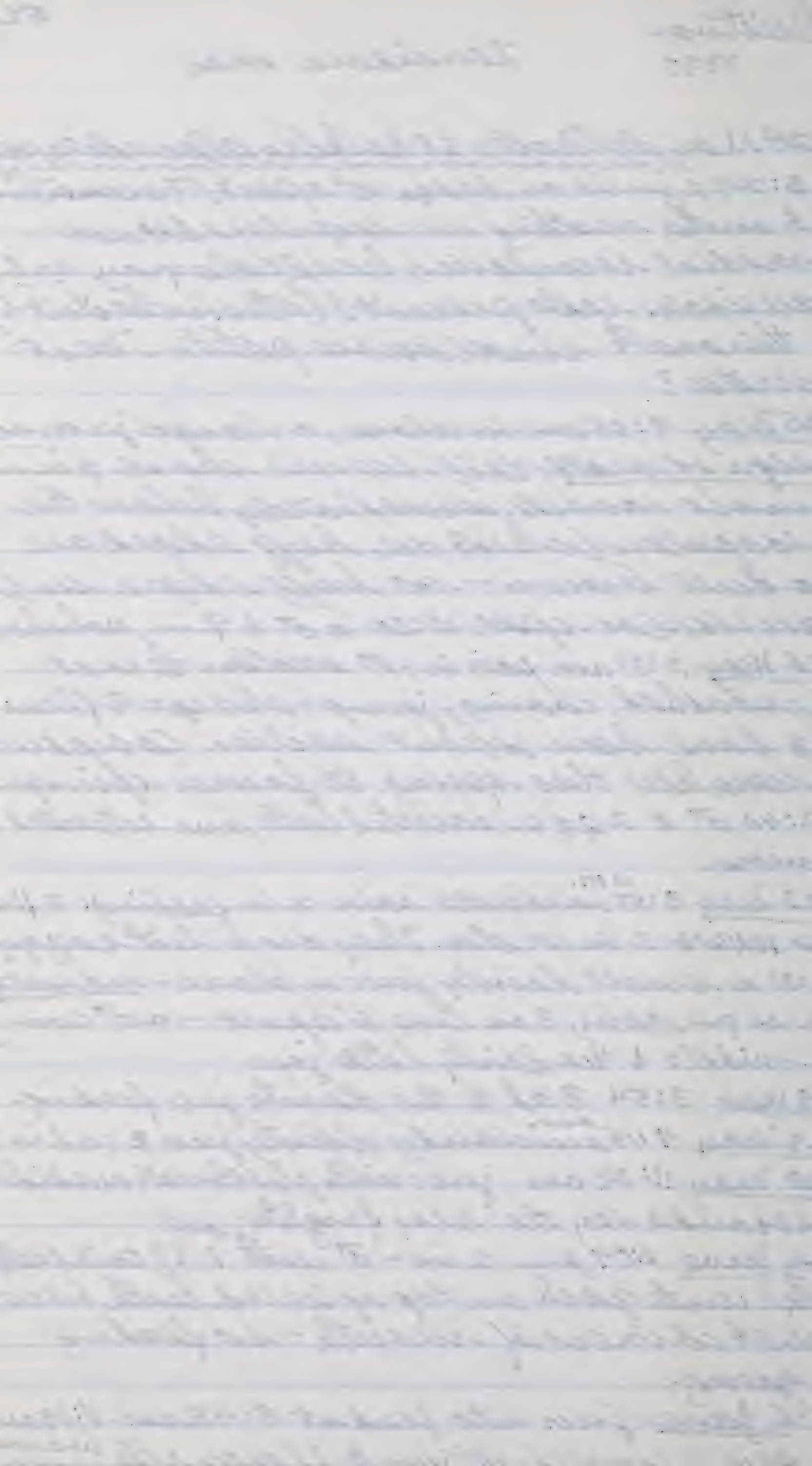
27 May 8:55 ^{am.} madeado rain 2 in feeding. 3 flew
to WNW & 1 in ce. elm. They are a bit raggy.
9:31 a small dainty juv. in alone - no molt
12:41 pm rain, 3 on line 6' apart - a ♂ cawing
♀ middle & the dainty little juv.

28 May 3:54 3 ad & the dainty juv. feeding.

29 May 9:15 ^{am.} cloudy dainty juv. & 1 ad. in.

30 May 11:39 am juv. with chestnut medial
secondaries, etc. very frighty, one
4 June 2:09 pm 2 in - ♂ with 1 1" tail feather
♀ with gash on top of head. Both have
wet corners of mouth - so feeding
gaming.

6 June juv. into feed at 8:45 am. 11:19 am
pair + 1 small light juv. & 1 larger side brown
juv.



Christman

1990

Tonidura macr.

53

6 June, del Norte St, Berkeley, Alameda Co., CA
1 pm 2 pr feeding; 3:15 small adult juv & ♀

7 June 6:47 am 2 ad ♀-♂ & juv. feeding

8 June 11:28 am 4 ads flying
about front area.

10 June 9:40 am small juv. in

alone; shows molt(?) on upper breast
very pale auriculars. 10:47 am 2 in - a pair?
one (♀?) with 1 tail feather - 2" beyond wing.
10:54 - 1 in steep upward flight to SW then
on set wings glided down to SW.

11 June 9:14 am. 1 small, dull juv. on line then
to ledge.

12 June 8:57 am juv in alone (as with
ad. earlier) has a few brown feathers on
scapulars & upper coverts. Molting.
another juv. at 10 am - no molt.

14 June 8:33 am. a pair in with juv. which
only has 1 tail feather!

15 June 11:12 am juv in alone molting on breast
& inner coverts - scapulars - new ones - 6)
one almost a chestnut color. 6:57 pm 7 in

6:56 7 feeding - all appear to be ♂♂ (♀ nesting)

19 June 8:59 am 3 ads & 1 molting juv feeding
& 2 hand-tails in.

20 June 9:31 am molting juv. in alone.

21 June 9:02 am small ad ♀ in alone with
corner of mouth wet so feeding young.

7:36 banded 2 loaves: R. Orange and
ht Black.

22 June 8:44 am 1 juv. brown, no molt.
feeding alone.

23 June 10:16 fog ♂ & ♀ on line, ♂ to landing
line no hands. 7:26 ^{sun} pm 3 ad, 1 small juv. 1 juv.
lost out

Mrs. Truax
1990

54

Zenaidura macr.

- 24 June, ^{CA} del Norte St., Berkeley, Alameda Co.
10:51 am 1 molting juv. with a molting
ad ♀.
- 25 June 9:50 am 2 ads feeding & non-molt-
ing juv. on line. Then a lone molting
juv. to line (rich chestnut scapulars).
- 26 June Boulders 8:34 am ♂ Rt Red.
3:28 juv. with only several outer white tail
feathers, molting.
- 27 June 11:43 am Rt. red, in feeding with ♀.
- 1 July 9:30 4, 3 ad. & one molting juv. which
is a deep chestnut color.
- 2 July 8:53 am 3 juvs. 1 small molting; 2
larger brownish (rich) with typical bars
with no sign of molt.
- 6 July 10:29 am 2 juvs. both molting & nearly
ad. size. One charged, head up, the other
which flew to line 20' away.
- 7 July 10:06 am 2 ad feeding + 1 juv. not
molting & 1 molting juv. And 1 ad (?)
is in heavy molt.
- 8 July 6:27 pm 3 feeding - 3 with feathers
missing in tails - grassy. 2 molting juv.
Rt Red present. Lt. blood feet present.
- 6:31 13 feeding; + young juv. → very short tail!
- 11 July 9:20 am 3 feeding - Rt. Red, (OT) and the
ad & a juv. just beginning to molt.
- 13 July 9 am 1 feeding small, heavy molt
esp. about head-neck, wings & scapulars
are a rich almost bright chestnut brown
- think this is older juv. (young of year) -
was another in heavy molt also chestnut
chased the ? juv. away - it flew. 12:32 pm 3 in
- ♂ chased non-molting juv from seeds & a ♀

Christman
1990

55

Zenaidura macr.

- 13 July, ~~Del Norte St.~~ Berkeley, Alameda Co., Calif.
7:28 pm banded ♂ Left Black Lt Bl.
- 26 July 6:30 pm 12 feeding, most in
molt only 1 looks like last molting juv.
7:07 on line 1 juv. (large not molting, 1 ad.
them 1 heavy molt - past juv.?)
- 27 July in alone about 2:30 a lone unmolting
juv. - small rather darkly - ♀?
- 30 July ♂ coming at molting ♀(?) alone. 7 birds
feeding - ad, but 1 molting late juv. 6:30 pm⁷⁰⁹
- 1 Aug 9:37 am fog - 2 juv. 1 heavy molt
chestnut brown new. Other 1 same size
no molt light auriculars, dull brown.
- 7 Aug 2:29 pm sunny Rt Orange a ♀ with
a ♂ to feed.
- 15 Aug 9:38 am 1 little non-molting juv.
in feeding. 9:38 am 2 ads. feeding, plus
chase juv. and another past-juv. with
only a few buff edged juv. feathers
coming - near end of molt.
- 22 Aug 4:19 pm 8 feeding almost all in molt
& includes small not molting juv. (fledgl.?)
- 23 Aug 8 am ad - left foot flexed feeding, alone
- 24 Aug 12 + feeding at 4:25 pm; 1 juv. a new 1.
4:30 pm lt foot flexed in almost all in molt.
- 28 Aug 2:36 pm alone ♀ molt on top of head
& corner of mouth wet!
- 29 Aug 3:34 pm scrub J Rt. G feeding 1 ± fr
from a dove which flew at jay & briefly
hovered over J. which ducked head but
wasn't much impressed! a first!
- 30 Aug 4:12 pm 13 feeding - juvs.: 1 small in
heavy molt, 2 larger - no molt.
- 31 Aug 4:50 pm 14 feeding - 4 juvs. only

The first part of the book is devoted to a general
 description of the country, its climate, soil, and
 productions. The second part contains a detailed
 account of the principal towns and cities, and
 the third part describes the various branches of
 commerce and industry. The fourth part is
 devoted to a description of the military and
 naval forces of the country. The fifth part
 contains a description of the various religions and
 sects which prevail in the country. The sixth
 part is devoted to a description of the various
 customs and manners of the people. The seventh
 part contains a description of the various
 laws and regulations which govern the country.

I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
 Yours, very obediently,
 J. H. [Signature]

Christman
1990

56

Zenaidura macroura

1 Sept. del Norte St. Berkeley, Alameda Co. CA.
11:32 am ♀ feeding & a little malt, ♂ on
ledge 20" away, no malt, re-walking
back & forth. No cooing - in fact, I
haven't heard any cooing for some
time now to think of it.

4 Sept 4:37 pm = 80°F 20 feeding, 3 juv. (±?)

5 Sept 4:06 pm ♂ & small ♀ - the first
small coo I've heard for weeks! No
evident malt in either. 4:13 pm ♀ feeding
brief cooing-cooing, 1 juv. + 1? in heavy
malt. 4:31 14 feeding.

6 Sept a lone dove feeding at 11:37 am ♂
is small (?♀) & entire tail 1" beyond
tip of wings - a smooth number except
for 2 white feathers - very symmetrical
- is this the individual which lost the
entire tail several months ago?

10 Sept 8:30 am⁵ & feeding incl.: Lt Fast
flew (back of head in pin feathers); 1 non-
mating juv & another juv. in heavy
malt rather rich brown.

15 Sept 9:38 am ♂ flying after ♀ on landing
to line, etc. No display, no cooing. 2:05
Rt. led in to feed; same malt esp wing
coverts - missing central tail feathers
big like a ♂, blue on head. 4:12 pm
10 feeding, incl. 2 juvs. 1 in malt.

18 Sept 2:45 pm another one! a juv. on
ledge & line with no tail or coverts.
4:30 about 20 feeding they suddenly exploded
in flight (fright?)

20 Sept 9:59 am feeding: ad ♂, juv/no tail.

24 Sept R+ Red with others at 9:11 am

Introduction

The purpose of this study is to investigate the effects of various factors on the growth and development of the human brain. The study is divided into two main sections: a review of the literature and a description of the experimental procedures. The literature review covers the following topics: the development of the human brain, the effects of nutrition on brain development, the effects of exercise on brain development, and the effects of stress on brain development. The experimental procedures section describes the methods used to collect and analyze data on the effects of these factors on brain development. The results of the study are presented in the following sections: the effects of nutrition on brain development, the effects of exercise on brain development, and the effects of stress on brain development. The study concludes with a discussion of the implications of the findings for future research and for the development of interventions to promote brain health.

Christman
1990

Zenaidura macr.

57

24 Sept, del Norte St., Berkeley, Alameda Co CA.

10:30 Rt R heavily in molt, wing coverts,
head, tail - in new

25 Sept 3:55 pm Rt Orange; a juv. in wing
covert molt; + 5 others

26 Sept 9:50 8 feeding. 8+ in about 5 pm

27 Sept 9:50 Rt Rd in feeding alone.

28 Sept 9:21 Rt Red in with 3 other doves.

9:29 - 13 feeding; 1 molting juv. & 1
small ad with only 2 or 3 tail feathers.

29 Sept 8+ in about 8:45 am. a band-
tail flight display this am. When was
the last dove display flight?

11 Oct 9:25 am about 12 feeding on landing
saw me, flew to bare limbs of NW elm.

12 Oct 9:23 am 10 feeding (were in earlier)
one ♂ charged another, no cooing.

3:40 pm doves flying into cedar from NW
elm. Then a small juv. came in - no
sign of molt. Is this a new one? 4:21

12+ feeding: 2 juvs, no molt, 1 late juv with
a few chestnut feathers upper coverts. Rt Red
now 17

13 Oct 4:33 P 15+ Rt. O among them.

15 Oct 3:26 pm 12+ Rt. red; 2 juv. 1 older juv.
molting

20 Oct 4:46 pm clear late pm feeding freely
17+ 1 H.F. (only one real juv. + one in late
molt) Much variation from light under
- gray to almost chestnut

29 Oct. 1 near top of NW elm - rare; 5 others,
who were in feeding, now loafing in ~~in~~
60' up in NW elm on nearly horizontal
branches 1 1/2" diam & less.

Main body of handwritten text, appearing as a list or series of entries. The text is mirrored across the page, suggesting bleed-through from the reverse side. The entries are organized into columns and rows, with some lines starting with numbers (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).

Christman
1990

Zenaidura macr.

58

30 Oct., ~~del Norte St., Berkeley, Alameda Co., Calif.~~
in am = 1 on line line of bare skin
ventral throat to midline across
upper breast - with neck-breast feathers
striking straight out - very dramatic.
4pm = 1 with all tail feathers full length
but basal $1\frac{1}{2}$ " in sheath - no coverts
over them. Another = st. scapular area
disarranged

13 Nov Since the paint on the landing/led-
ge has dried a few have come in - about
5+. Also, throughout day they have been
perching/loafing in NW elm much
more than cedar & also in W. elm. So
there has been a switch since the
elms have lost their leaves.

14 Nov 10:14 am light rain & feeding, incl.
Rt Red with 2 golden-crowns.

16 Nov 4:09 overcast about 10 feeding, spooky.

17 Nov 3:51 6 or 7 feeding almost overcast.

21 Nov 4:16 pm clear - 20+ from NW elm to roof
4:45 pm after sundown they have not come
down to feed, nor have I seen them fly -
is the leaperhawk still in neighborhood?

24 Nov 4:29 pm low sun, clear. 16+ feeding
(incl. Rt. Red) towhees, J, golden-crowns
all at once.

26 Nov 3:51 pm 13 loafing in NW elm 70-80'

28 Nov 4 pm 13+ feeding with 1 towhee.

3 Dec 9:29 am No bird activity suddenly
7 + 1 towhee in to feed. An overcast sky
will there be more bird activity? 10:49
2 in W. elm (no feeding since 9:40) (Fox sp., 1 J, 1
towhee feeding - James came in.

1990-91

Zealandia mac.

3 Dec del Norte St., Berkeley, Alameda Co., Cal.

4:15 down piling 2 still in NW elm, 17+ in

4 Dec 3:38 pm part overcast 13 feeding, 4+ w. elm

10 Dec see Cooper hawk acc't

11 Dec. RT Red in at 10:15 am 4:05 clear about 20 feeding.

14 Dec 3:33 pm sunny overcast 19 high in NW elm, 1 in W elm 60-80' up. waiting to come in.

17 Dec 3:30 pm 20+ feeding. now loafing in NW elm top 30 ft. about 25+ now.

18 Dec. 3:05 a ♂ & a ♀ with only 2 white tail feathers 1" beyond wing tip. now 8 others in

20 Dec clear, wind, cold 15+ feeding at 4:29 pm

29 Dec 3:45 pm few feeding. 2 "coos" distance

4:18 several on sage - 1 loud "coo" first of yr!

4:45 1 display flight - glide to SW - where is Pring?

31 Dec 3:30 pm sunny 4 perched in W & NW elm.

One sailing display 60 yds to W; low.

1 Jan 91 3 pm 1 cooing close in. Early start 12+ feeding at 3:50 pm.

6 Jan 1:57 pm 2 on 6" branch high in W elm beside each other false preening then a prolonged capulation, hopped off; ♂ flew several feet off preened. 4:23 15+ feeding

7 Jan 11:24 am overcast, recent rain, 4 loafing upper 2/3 of NW elm on 2" branches about 20" apart - some flapping around - ? capulation? see Cooper hawk acc't

8 Jan 8 in W elm at 4 pm; now 1 NW elm

13 Jan 9 am in fog some cooing 4:14 ♀ on line, ♂ flew down to it from sag - 6-7" & he with swollen neck gave a "coo" now loafing another one in soaring display from up SW to S

23 Jan 8:30-11 am 4 in NW elm loafing.

1875-76
The following is a list of the names of the persons who have been elected to the office of the President of the United States since the year 1789.

Year	President
1789	George Washington
1793	Thomas Jefferson
1797	John Adams
1801	James Madison
1809	James Monroe
1817	James Monroe
1821	James Monroe
1825	James Monroe
1829	Andrew Jackson
1837	Andrew Jackson
1841	Andrew Jackson
1845	Andrew Jackson
1849	Andrew Jackson
1853	Andrew Jackson
1857	Andrew Jackson
1861	Andrew Jackson
1865	Andrew Jackson
1869	Andrew Jackson
1873	Andrew Jackson
1877	Andrew Jackson
1881	Andrew Jackson
1885	Andrew Jackson
1889	Andrew Jackson
1893	Andrew Jackson
1897	Andrew Jackson
1901	Andrew Jackson
1905	Andrew Jackson
1909	Andrew Jackson
1913	Andrew Jackson
1917	Andrew Jackson
1921	Andrew Jackson
1925	Andrew Jackson
1929	Andrew Jackson
1933	Andrew Jackson
1937	Andrew Jackson
1941	Andrew Jackson
1945	Andrew Jackson
1949	Andrew Jackson
1953	Andrew Jackson
1957	Andrew Jackson
1961	Andrew Jackson
1965	Andrew Jackson
1969	Andrew Jackson
1973	Andrew Jackson
1977	Andrew Jackson
1981	Andrew Jackson
1985	Andrew Jackson
1989	Andrew Jackson
1993	Andrew Jackson
1997	Andrew Jackson
2001	Andrew Jackson
2005	Andrew Jackson
2009	Andrew Jackson
2013	Andrew Jackson
2017	Andrew Jackson
2021	Andrew Jackson

Christman
1991

Zonaidura mac.

60

23 Jan., del Norte St., Berkeley, Alameda Co, CA
have heard no cooing lately. 5 or 3
in NW elm to early afternoon. 4:04 pm
the first dove returns to NW elm
from the Cooper Hawk attack (SEE Act)
at 3:49 so 15 minutes. only 1 now.
4:07 now 2 in W. elm. 4:09 these 2, 1 is
cooing - swollen throat, etc (can't hear)
& chasing other branch to branch then
up into cedar. 4:53 - 2 on ledge - ♂
cooed once at 4:45; now cooing from ledge.

24 Jan 8:50 am clear cool 4 in feeding
no cooing. 3:58 pm - 11 feeding. Most of
day about 4 loafing in NW elm

26 Jan 9:36 am 2 feeding; 6 in NW elm
same "cooing".

29 Jan 9:35 am 3 in middle of NW elm loafing.
4:01 - 12 in NW elm loafing 4:06 same cooing
4:36 much in feeding - one ♂ charging ♀ with
excess full throat & cooing. 4:39 - 16 feeding
with 1 band-tail. 5 1 in W elm

30 Jan 9 am 5 loafing in mid part, NW elm
3:48 overcast, looks like a population in NW elm
4:03 1 sailing display low to W.

31 Jan 3 feeding with 2 B-t pigeons at 7:30
am - 10:10 a broad scaleaping display sailing
from E to W. & landed in W. elm. 1:47 2 feeding
with several bouts of cooing.

1 Feb 2:50 - 5 doves to feed - overcast, they
have been in NW elm 2:54 now 8 avidly feeding

2 Feb 6 in NW elm & 2 in W elm so far today -
hunched up loafing - rain at night not feeding
at 11:30 am. This has been consistent for some
time now for (as) a local population.

Transcript of Interview

The following is a transcript of an interview conducted on [Date] at [Location]. The interview was conducted by [Name] and the subject was [Name]. The subject was interviewed for approximately [Duration] and the interview was conducted in a private setting. The subject was informed of the purpose of the interview and gave their consent to participate. The subject was also informed that the interview was being recorded and that the subject's responses would be used for [Purpose]. The subject was given the opportunity to ask questions and was provided with the necessary information to make an informed decision. The subject agreed to participate in the interview and the interview proceeded. The subject provided the following information:

[The following text is a placeholder for the actual transcript content, which is illegible in the provided image.]

Christman
1991

61

Teasidura mac.

4 Feb, del Norte st., Berkeley, Alameda Co., CA
3:24 pm rain, rather heavy, 8 hunched
up land (50'+) in NW elm.

5 Feb 9:14 8 feeding. 9:34 7 loafing in mid
section of NW elm. I guess din the sawl
means of support ~~for~~ for this small
local population this winter.

9 Feb fog rolling in near sunset 7:40
~~as it had been for the last 3 days~~ 3:12
pm sunny - 3 in NW elm - plus 2. 4:09 pm
13 feeding - a few "caos"

11 Feb 10:02 am ♀ in to feed - base of bill
is discolored - feeding young. 12:02 pm

2 preening in NW elm. 2:03 pm 2 8" apart on
near horiz. limb NW elm; 10' away 1 lower.

2:20 the ~~upper~~ corner of bill 1 into feed - it
flew back to elm to beside another! Not the
same one.

15 Feb 4:18 pm came, cast high overhead 2 in broad
sailing circle W-S descended dramatically -
usually 50 yds apart.

17 Feb 4:20 pm clear, lots of circling. 10 feeding ^{earlier}

20 Feb 9:47 am 2 in soaring flight over up
st. elms. several in earlier to feed.

23 Feb 8 am lower feeding quiet "who" calls.

28 Feb 1:45 pm rain shower; 4 on line 8 +
from house, about 15" apart; 1 high in W. elm.
1:53 new 7 feeding.

1 Mar 10:52 clouds, windy & rain some flying
by very fast, 1 has been on line in lee of
oak (5') preening. only 1 in NW elm so far
11:19-3 on line & 2 on ledge - ♂ cooed up
right, ♀ into oak. 11:33 6 on line & another
in to feed. 1 ♂ actively cooing & chasing ♀

Journal of the

The following is a list of the names of the persons who have been elected to the office of the President of the United States since the year 1789. The names are given in alphabetical order, and the year of election is given in parentheses. The names are given in the order in which they were elected, and the year of election is given in parentheses. The names are given in the order in which they were elected, and the year of election is given in parentheses.

George Washington (1789)
John Adams (1797)
Thomas Jefferson (1801)
James Madison (1809)
James Monroe (1817)
John Quincy Adams (1825)
Andrew Jackson (1829)
Martin Van Buren (1837)
Franklin Pierce (1853)
Abraham Lincoln (1861)
Andrew Johnson (1865)
Ulysses S. Grant (1869)
Rutherford B. Hayes (1877)
James A. Garfield (1881)
Chester A. Arthur (1881)
Grover Cleveland (1893)
Benjamin Harrison (1889)
William McKinley (1897)
Theodore Roosevelt (1901)
William Howard Taft (1909)
Woodrow Wilson (1913)
Warren G. Harding (1921)
Calvin Coolidge (1925)
Herbert Hoover (1929)
Franklin D. Roosevelt (1933)
Dwight D. Eisenhower (1953)
John F. Kennedy (1961)
Lyndon B. Johnson (1963)
Richard M. Nixon (1969)
Jimmy Carter (1977)
Ronald Reagan (1981)
George H. W. Bush (1989)
Bill Clinton (1993)
George W. Bush (2001)
Barack Obama (2009)
Donald Trump (2017)

Christman
1981

62

Zenaidura macr.

- 1 Mar, del Norte st., Berkeley, Alameda Co., CA
12:32 pm heavy rain 2-5" apart on line
next to Fittos - hunched up.
- 2 Mar only a few about - windy. Many flying
past at great speed. 5: pm light rain -
2 feeding; 9 on line, 6" to 1' apart. 4:39 pm
now 12 on line 14" to 5" apart. moderate rain.
- 4 Mar. 11:07 a very aggressive ♂ cooing
and "charging" - Mob nearly vertical
& swollen, head-bill down, then it
hopped several - 1 1/2 - 2" up in 2-3"
'strides' - the ♀ flew off.
- 6 Mar 4:48 doves copulating in NW elm
- 8 Mar 4:25 doves cooing in - a juv. Band tail
in feeding. 1 ♂ dove cooing & vertical
charge/hop.
- 9 Mar 3:48 pm - 2 were in, flew to hairy. limb
in NW elm. They just copulated. No post cop
flight display in this sp.
- 10 Mar about all day & 9 on line during
rain 3:26 an attempted copulation on line
- flew off 4 pm light rain they are feeding
in water almost up to tibiotarsus.
- 12 Mar few about today until after 4
when 10 feeding as on line.
- 17 Mar 8 am light to medium rain, 8 on line
hunched up & 3-4" apart; 1 in NW elm
on 2" branch 40' from top. 3:34 clearing
4 ads. in, then out of course. of eye saw another
- the first juv. of the year! just sitting
there! 4:35 10 feeding in, up to 1" of water!
Lots of cooing this afternoon - 5 pairs!
- 18 Mar not many about today, a few flight display
4:14 4 on line - 14" to 10" apart, all looking up!

Christman
1991

63

Zenaidura macr.

18 Mar., del Norte St., Berkeley, Alameda Co., CA.

4:19 9 on line = 2 pr at 30'; 2 at 25 with same cooing, then original 5 preening.

4:43 lots of 2's on line; now 1 cooing or & chase encounters - flying = they are in breeding condition! None in feeding yet.

20 Mar. 10:59 am variable clauds a juv. feeding with an adult. Juv. with buff crescent to feathers & light streak under eye across auriculars. 2 ads & juv. at 11:10 4:pm about 10, plus a very frightened juv.

26 Mar. 5 on line 20' from house at 10:11 am after rain - they are all preening actively - feathers ruffled up.

31 Mar 12:22 overcast - a pair on ledge & a juv. feeding which flew 20' down line when it saw me. Nice plumage on all.

12:50 2 ads loafing on ledge & juv. same.

6:08 pair & juv. feeding avidly.

1 Apr. 2:09 2 on 1" + limb well under oak canopy, preening.

11 Apr. 4:49 - 4 feeding, 1 coo & charge.

14 Apr. 9:30 3 on line

15 Apr. 9:10 pair on line - ♀ flew to bare branch in Pittos - this is exceptional & nest sight searching? dt's preening about 9:13 flew back 12' to ♂. Then ♀ flew into NE section of oak, followed by ♂ to inner larger branches.

16 Apr. 2 or 3 in today feeding; 5:30 display flight to W.

17 Apr. 10:35 2 in ♂ cooing & charging.

another in flight display, circling to W.

19 Apr. 1:42 2 on 6" limb horizontal in oak nibbling each other on necks. 6:43 about 6 about.

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. In the second part, the author discusses the results of his own research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The third part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The fourth part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The fifth part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The sixth part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The seventh part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The eighth part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The ninth part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom. The tenth part of the paper is devoted to a discussion of the results of the author's research, which are based on the application of the theory of the structure of the atom to the study of the properties of the atom.

Wistman
1991

64

Turdoides naevius

19 Apr., del Norte St., Berkeley, Alameda Co., California

6:49 a new bird, sex ?, runs about in ^{juv. or} short
steps & head entirely in pin feathers, fighting
27 Apr 6:52 - 4 feeding / including the 1 with
pin feathers ahead.

25 Apr 3:47pm R+ foot flexed & in to feed
looks ab.!

26 Apr 9:01am 4 feeding, same cooing as

27 Apr 6:19pm RFF in with ♀ who he advances

28 Apr 4:55 1 in sexual display flight 4pm 10+ in!

6:37 about 4pm above on landing hunched
up & not moving, tho alert. The feathers
of back are ruffed up rather severely. now
its still there. I opened window to throw
out food. It was next to house & ran off - not
flying.

29 Apr above bird dead by a.m. cooing &
display flights at 9:44.

1 May 4:06 ♂ displaying to female, feeding

2 May 10:15 ♂ on line, then a juv. to line
24" away. The juv. not as young appearing

as some. 10:18 a tawnee landed between them
6" or 7" from juv. which raised its opposite
wing almost vertically. It has same spots
on back & scapulars of a richer color -
so it maybe molting into ad. plumage
- is it the juv. that showed up earlier?

10:23 now feeding 5' from me with an ad. with
few molulations on st. wing. Juv. has
a few new feathers on inner lining of wing
- dorsal, 3:40 - juv. & ad. feeding again.

4 May 11:11 juv. molting on line alone - secondary
& all secondary coverts have light terminal
redescents

Kristman
1991

Zenaidura macr.

65

6 May, del Norte st., Berkeley, Alameda Co., Calif
11:59 am juv. & ad feeding - juv. really
looks ratty - molt.

7 May 8:37 am 1 ad in feeding (Lt. scapulars
missing) and then 2 juv. one is molting
other not molting; both small dainties.

10 May 9:07 am non-molting juv. in feeding
and ad. ♂ chasing it.

13 May 1 ad; 4 ♂♂ feeding + 1 juv. (non-molting)
(♀♀ molting ?) 1 ♂ has feathers missing
from 7+ wing to bend of wing, plus Lt. rump.

11:46 a ♂ & ♀ in together, brief casing. They
have been flying about - line, etc. ♂ chasing
♀ more casing - a very aggressive ♂. 12:34

the juv. molting is in feeding with 1 ad.

5:27 ♂ & ♀ in; ♀ met corner of mouth. ♂ quiet.
- both met at corner of mouth! now looking 6'

16 May 4:33 a juv. in alone to line, flew off -
no molt. The molting 1 in this a.m. 6:04 6 ad feeding

18 May 11:24 a ♀ in alone corner of mouth is
very met. = feeding fledglings! 4:14 pm on
line with the molting juv. same casing close.

19 May 5:54 have been in off & on all day had
4 on line 12" apart. Lots of casing somewhere.

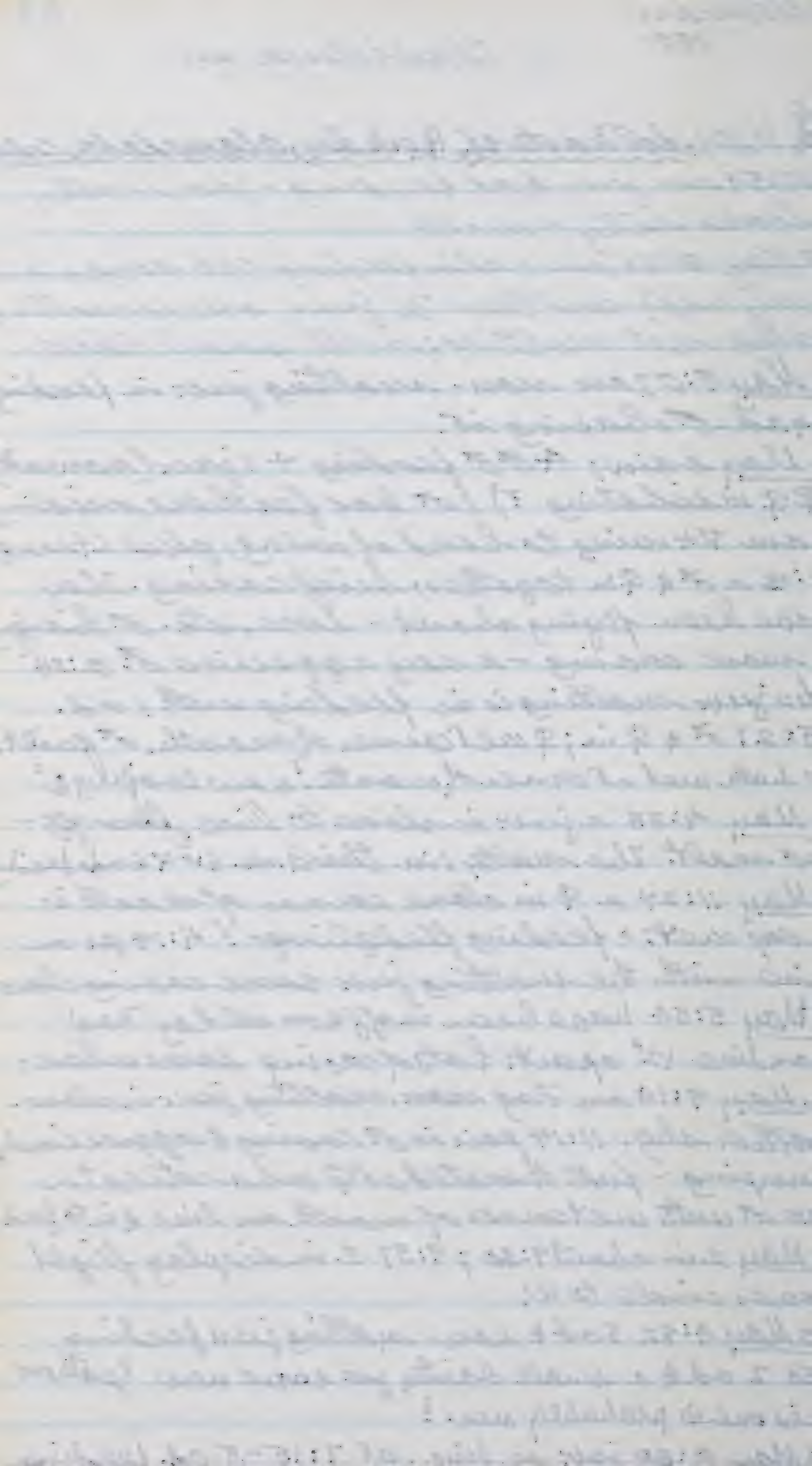
22 May 9:18 am 7 ad non-molting juv. in alone.
rather shy. 11:14 pair in ♂ casing & aggressively
jumping - full throated at ♀ who retreats.

1:35 ♂ with met corner of mouth on line & in to feed.

24 May 2 in about 9:30; 9:57 2 in display flight
over circle to W.

25 May 4:82 3 ad & non-molting juv. feeding
5:50 2 ad & a small dainty juv. some new feathers
this one is probably new!

28 May 8:38 juv. on line, at 7:15 - 5 ad. feeding



Christman
1991

66

Zenaidura mac.

- 28 May, ~~del Norte St., Berkeley, Alameda Co., Cal.~~
6:00 2 ad. on line & 1 dainty juv. in to feed.
- 4 June 9:57 2 ♂ cooing. 1 charging ♀
- 7 June 3:37 ♂ with lt. foot flexed, in feeding
with ♀. 6:20 in bright sun - ♂ ad with 1 juv
mating into ad. on line
- 10 June 10:22 am ♂ cooing & charging small ♀
- 11 June 4 pm bright sun pr. feeding then loafing
on ledge preening 2-8" apart. ♀ crouched
down (♂ preening 2" away) she flipped & wing
clashed to ♂, several times, then reached & gently
pecked at him - ♂ retreated. Then just preening
- 17 June 9 am pr. feeding then on ledge preening
♀ quivering wings & pecking at ♂ primaries.
- 21 June 9:56 am. a large dully colored juv. -
pretty well grown.
- 23 June 3:15 pm on line ♂ cooing.
- 28 June pair cooing, cooing etc few
claws lately.
- 29 June 7:41 pm sunny 2 new & strange juv
huddled on S landing next to ledge; small,
delicate, frightened, bills slightly bent down &
very light horizontal line under eyes.
- 4 July 8:15 am alone - ^{lt} FF dove (7 ♂) feeding
- 5 July 10:28 pm feeding, with older juv (no
mask, dull colors) Tag.
- 8 July 10:15 am Tag 1 in alone, an ad. with very
short tail - i.e. replacement feathers - 2"
long. Another 'last tail'. 6:40 6 feeding 2 of
which are juv. - 1 small; 1 larger

Journal of the

The first of the month was a very fine day, and we went out for a walk in the park. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and we were all in good luck.

We went to the park and saw many beautiful flowers. The children were very happy, and we all enjoyed it very much. The weather was just what we needed, and we were all in good luck. We saw many beautiful flowers, and the children were very happy. We all enjoyed it very much, and the weather was just what we needed. We were all in good luck, and we saw many beautiful flowers.

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Christman
1991

67

Zenaidura macr.

- 18 July, all birds so, Berkeley, Alameda Co., CA.
11:38 am fog. juv. larger, feeding, no molt
19 July 9:19 fog, ♀ & ♂ in (♂ has a
wound on top of head; portion of
skull exposed - $3/8$ " square; feathers
standing straight up!).
20 July overcast, brief light rain. above pr.
in (wounded ♂); & 1 handsome juv
(sub-auricular 'stripe' is vaguely
evident).
22 July 9:37 pm 1 juv. in heavy molt + 1 ad.
24 July 7:25 - 7 feeding 7:36 2 - cooing
26 July 9 am 4 feeding, 2 ad. 1 (?) juv. in
heavy molt & 1 late juv. no molt.
29 July 10:06 am sunny - flight display
from W to E then 2 to line; ♂ cooed.
30 July 9 am 1 juv. in molt. 6:17 10 feeding
(fog) 2 juv.), but not juv. in cedar!
31 July 9:28 am. juv. young & not molting
in. 1 cooing ♂ absent.
1 Aug 3:32 pm clear; juv (no molt) & pr. with
♂ cooing 6:27 8-10 in feeding, most flew off.
2 Aug. ♂ with bare skull between eyes on
line 20' from house.
4 Aug 9:52 am Lt Faint Flared feeding - 3 others
5 feeding & 1 molting juv.
5 Aug 8:36 am Fog. 8 feeding 1 past juv.
in molt others not. 8:44 These flew, then
in a ♂ with few maculations & a very
shy juv - no molt. 11:12 a juv. in heavy
molt. 1:16 pr in, plus a young past juv. and
of molt, dainty, same molt
6 Aug 9:36 am Fog in off & on all am. an ad with only
1 short tail feathers. Another "minus T" bird

Introduction

The purpose of this document is to provide a comprehensive overview of the project's goals, objectives, and scope. This section will outline the key areas of focus and the expected outcomes of the study. The document is structured as follows: a detailed description of the project's background and context, followed by a clear statement of the research objectives and hypotheses. The methodology section will describe the research design, data collection methods, and analysis techniques. The results section will present the findings of the study, and the conclusion will summarize the main points and provide recommendations for future research.

The project is designed to explore the relationship between the independent variable and the dependent variable. The study will involve a series of experiments and observations to gather data that will be used to test the hypotheses. The data will be analyzed using statistical methods to determine if there is a significant difference between the groups. The results of the study will be presented in a clear and concise manner, allowing for a thorough understanding of the findings. The conclusion will provide a summary of the key findings and discuss the implications of the study for future research and practice.

The study is expected to contribute to the existing body of knowledge in the field by providing new insights into the relationship between the variables. The findings will be used to inform the development of new theories and models. The study will also have practical implications for the field, as the results can be used to guide the design and implementation of interventions. The document will be a valuable resource for researchers and practitioners alike, providing a clear and detailed account of the project's progress and findings.

Christman
1991

68

Tenaidura m.

6 Aug, ~~del Norte St. Berkeley, Alameda Co. CA~~

10:36 am on line near nesting juv. alone

7 Aug 9:53 am juv. in alone after chestnut wing coverts, no other obvious molt. Saw many juvs. so far this year. 12:10 pm

beautiful young juv. in alone - no molt

10 Aug 10:02 pr. flew in, ♂ cooing. 7:24 7ag about 10-12 in feeding

12 Aug 11:12 am 1 ad & 1 juv. to line then in to feed; both in wing coverts. molt new feathers are a bright chestnut.

11:19 ♂ cooing, ♀ feeding; another pair in courtship flight. 12:11 - 1 juv. in alone - no wing molt except molt inner 1st prim. with subauricular spot. Check this

1) 1 more tips of bill don't seem to molt.

13 Aug 10:23 ad ♂ & molting juv. - head-neck rough same chestnut on wing coverts - outer coverts buff edged. 4:41

6 feeding. Earlier - the 1 (♂?) with 1 tail feather - short at that - 3"

14 Aug in & out all day. 3:29 pm a new juv., dark rich brown with usual buffy terminal bars. even neck & chest are darker than molt. coverts of wings rich chestnut. Not usual small & delicate.

15 Aug 3:56 pm clear. The juv. no molt, rather delicate (?) in with 5 other juvs! plus several ads.

17 Aug. 3:59 pm 7ag. 11 feeding of which 4 are juvs. only 1 in full molt.

22 Aug 6 pm 8 feeding

23 Aug 10:14 7 feeding, 4 flew; 1 ad, 2 juv. ^{no molt}

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Christman
1991

69

Thalassidroma mac.

26 Aug., del Norte St., Berkeley, Alameda Co., Calif.

10:50 am Fog. 2 ad & juv. in heavy molt. Then
1 cooing. 6:29 at least 11 feeding several molt

28 Aug 4:37 pm Clear; 6 feeding, incl. 2 non molting^{juv.}

4:49 13+ feeding: the one with bare area
around eyes; short tailed; only 2 or 3 in molt
rather shy today.

31 Aug 1:07 Sunny, a nice Adicote (? ♀) juv.
in molt.

4 Sept 7 am 3 non-molting juvs & 2 ad. in
feeding 4:04 14 feeding; 2 juv. not
molting; 2 juvs. molting.

13 Sept 8:58 am 13 feeding 3 juvs + (?)

14 Sept 10:44 am Fog 2 ad & 2 unmolting
juvs. feeding. 4:36 11 feeding & juv (1 molting)
then 18 (6 juv.).

15 Sept 6:50 pm fog approaching; sun up
Lt foot placed in to feed.

16 Sept 9:22 am 17 feeding molt in some
stage of molt.

18 Sept 7 am 12 feeding. 10:19 feeding:
1 juv. molting, 1 juv. not molting, 3 ads.

19 Sept 9:06 am Fog 20 feeding - most
not in molt. 2 nonmolting juvs & 1 juv.
in molt.

21 Sept 7:30 am Fog 12+ feeding 9:06 3 ad & 2
juvs feeding - latter are small & darker
than usual - are these new? 4:38 14
feeding - the 2 dark juvs + 1 molting 1.

27 Sept 8+ in at 8:30 - Fog. no cooing lately.

4:43 clear 18 feeding a few molting.

28 Sept 5:47 pm clear 14 feeding. 1 juv. & 2 juv.
in heavy molt.

30 Sept a few pairs about, but no cooing etc

1. The first part of the paper discusses the importance of understanding the underlying mechanisms of the system being studied. This involves a thorough review of the literature and a clear definition of the research objectives.

2. The second part of the paper describes the methodology used in the study. This includes a detailed description of the experimental setup, the data collection process, and the statistical methods used for data analysis.

3. The third part of the paper presents the results of the study. This includes a description of the data, a comparison of the results with the theoretical predictions, and a discussion of the implications of the findings.

4. The fourth part of the paper discusses the limitations of the study and suggests directions for future research. This includes a discussion of the potential sources of error and the need for further investigation into the underlying mechanisms of the system.

5. The fifth part of the paper is a conclusion that summarizes the main findings of the study and highlights the key contributions to the field.

Christman
1991

70

Tenaidura mac.

30 Sept del Norte St, Berkeley, Alameda Co, Cal.

For a while now 2 synergistic events:

1) leaves have fallen from NW elm - especially SE side leaving bare limbs

2) The doves are now roosting/feeding mass at day in the elm. Mass today = 15 & mass are aligned in pairs up to 2-3' apart

1 Oct 9:40 am Fog 9 in feeding - 9 of which 4 are non-mating juvs. 2:36 2 juvs. on line 6' from house 1 (the smaller) rather ratty juvenal plumage; the larger 1 is in post-juv. molt - new feathers on head.

3 Oct 9:03 a.m. clear morning in NW elm to roof then 13 feeding - only 1 juv.

4 Oct 4:43 pm fog, 18+ feeding 1 new juv.

15 Oct 5:46 pm 15+ feeding only 1 juv.

27 Oct 5:43 pm 6 feeding, no juvs.

29 Oct 3:27 several about - 1 juv.

31 Oct 3:15 pm 7 ad & small juv.

4 Nov 4:04 about 25 feeding (at least 1 juv. very late in post-juv. molt).

11 Nov 3:58 pm clear sky, 15 feeding, no juvs.

23 Nov 3:44 pm clear 13 feeding no mating juvs.

6 Dec overcast 3:09 pm 15+ in feeding - seems early for the after noon crap-fill!

7 Dec 10:15 am clear after rain 11+ feeding, no juvs.

4:13 almost sundown 18+ in W elm, were feeding

10 Dec at 6:50 am doves flying in at first dull light. They don't fly about in evening at this degree of darkness! 9:05 - 15+ flew to roof from W elm & NW elm hungry again!

11 Dec 7 am clear - just light - 18+ feeding

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Mistman
1991-92

71

Zenaidura macr.

14 Dec, Del Norte St., Berkeley, Alameda Co., Cal.
21:04 16+ feeding overcast & calm

19 Dec 3:46 pm clear calm at least 15 in
SEE S-Shaub acct of - 18 Dec 4:07-

The former much spooked when a Fox Sq
arrived suddenly from up drain pipe
(N) now at least 9 in W. elm & 1 NW elm.
windy again. 4:16 18 feeding, 1 has only
medial tail feathers nojaws!

22 Dec. 9:44 am scattered stratus Saw 1
in display flight high to W.

24 Dec 11:01 am clear & calm. incredibly
a dove cooing somewhere?

26 Dec 4:14 pm calm, clouds: was lots of
birds; now none! six small dove feathers
flapping down - from roof or fir?

27 Dec 10:08 am no doves in elms & none
in earlier. 10:36 2 doves in trees to W. elm.

2:24 rain - 4 doves flew over lawn, then
to NW elm - upper mid section.

28 Dec 7:30 am doves in feeding, at
least 1 ♂ cooing loudly.

29 Dec 11:06 - ten feeding overcast. In
the past 15 min. 5 in W elm on 1-3" limbs
mostly pretty horizontal 4:25 10+ in feeding

30 Dec 8 am 15+ in feeding; 10:15 loud cooing

31 Dec 7:45 doves feeding; 8 am. 1 high
display flight to NW & several coos
in distance. 8:45 am 7 leaving NW elm.
8:48 The local clientele = 11 in NW elm most
on horizontal 1"+ branches midway up

1 Jan cooing close in at dawn - 7 am +

3 Jan 7+ am cooing 9:24 display flight to W.

2:33 cooing close in. 4:11 - 19 feeding, eating next
cooing

1. The first part of the book is devoted to a general survey of the history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

2. The second part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

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4. The fourth part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

5. The fifth part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

6. The sixth part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

7. The seventh part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

8. The eighth part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

9. The ninth part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

10. The tenth part of the book is devoted to a detailed history of the United States from the discovery of the continent to the present time. It is a very interesting and comprehensive work, and is well adapted for the use of students and the general reader.

Christman
1992

Tenodura m.

72

7 Jan, del Norte St., Berkeley, Alameda Co., Cal.
10:57 am light rain, 6 perched up
on mainly horizontal limbs of NW
elm 3/4 up.

9 Jan 4:20 pm observed 21 doves in
feeding - 2 cooed this am.

19 Jan 7:30 a.m. clear calm cooing, 2 birds

25 Jan 3 pm overcast a ♂ & ♀ to ledge, ♂
gave 1 'coo' then both down to landing to
feed.

27 Jan. 4 pm 20 ± in feeding; an ex-
"e-ah" heard several times. No cooing.

1 Feb 4:56 15 + feeding, no cooing & late

6 Feb 3:37 8 ± on landing & line 1 attempt
of copulation - success has been rain.

10 Feb overcast 7:30 am several ♂♂
cooing loudly.

14 Feb 1:47 pm down pour of rain - 3 doves
on horizontal limb of NW elm 70' up. Now
1 holds Rt. wing up in rain!

4 Mar 2 in NW elm 43' up on 2" horizontal
branch at 10:21 am billing each other about
head & necks.

9 Mar Tam ± same in feeding some "coo's"
plus - frequent sharp "who-o" rather
quiet - have frequently heard this
over the years - no juvs. now - only
heard during feeding - but could it
hear if in trees anyway?

10 Mar 5:55 only about 5 in today after 9 am

12 Mar 4:33 2 into 5 part of NW elm ^{at} first day

14 Mar 9:40 am 2 copulating on horizontal
limb high in NW elm - in the rain.

31 Mar ♀ with no tail & back feathers ruffled.
9 am

The first of the year was a very dry one, and the crops were much injured. The weather was very hot, and the ground was very dry. The crops were much injured, and the weather was very hot.

The second of the year was a very wet one, and the crops were much injured. The weather was very cold, and the ground was very wet. The crops were much injured, and the weather was very cold.

The third of the year was a very dry one, and the crops were much injured. The weather was very hot, and the ground was very dry. The crops were much injured, and the weather was very hot.

The fourth of the year was a very wet one, and the crops were much injured. The weather was very cold, and the ground was very wet. The crops were much injured, and the weather was very cold.

The fifth of the year was a very dry one, and the crops were much injured. The weather was very hot, and the ground was very dry. The crops were much injured, and the weather was very hot.

The sixth of the year was a very wet one, and the crops were much injured. The weather was very cold, and the ground was very wet. The crops were much injured, and the weather was very cold.

Mistman
1992

73

Zenaidura macr.

- 5 Apr., del Norte St. Berkeley, Alameda Co., Calif
pair on line at 9:14 am - ♂ cooing, ♀ flew
- 11 Apr 10:02 am overcast. 3 feeding off & on
2, a pair, ♂ chasing, ♀ flying - evasion,
1 cooing hawk. Have seen no juvs. so
far this year! 6:19 light rain - ♂ cooing
to crunched ♀ who suddenly flew on to his
back! He freaked out & flew! one hat lady!
- 14 Apr. most at one time - 4, no cooing.
- 20 Apr 10:09 Hazy-Sunny 1 has been in
numerous display flights over the "circle"
area.
- 21 Apr 7 pm Hazy 4 feeding.
- 25 Apr 11:22 am clear 1 to roof - first since 9 am.
- 29 Apr 3:31 pm overcast down in, in's & 2's their
numbers have fallen off. Also since New
Am leafed out they no longer loaf in
that tree! 6:25 pm pair feeding.
- 2 May 10:21 am clear 2 in to roof - 1 cooing
and 1 in display flight to w. 2 in at 4:15
- 4 May 4:17 clear, has 2 ♂♂ feeding - in between
- 7 May 10:54 Fog, 1 display flight - low to w
earlier was loud cooing" - ? from roof.
- 8 May 10:57 ♂ cooing to ♀ on line & "apart"
another ♀ feeding. Have been in, in 1's & 2
this a.m.
- 12 May 4:40 pr in feeding, another on line & ?
- 13 May 1:53 2 pr in - so has it been
- in precision is, fewer this year and
so far no juvs. They have been
cooing etc. So why the failure 2:24 - 3
loafing in sun on N ledge
- 14 May 4:28 1 ad & 1 JW feeding - first of season
- 15 May 12:02 2 loafing on ledge; wet wings
of mouth.

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Christman
1992

Zenaidura macr.

724

15 May

4:37 1 juv. & 3 ad. feeding. This juv. is large for a juv. light line underneath.

16 May 9:20 am Tag. Next to my car, under w. elm what appeared to be 2 broken white eggs! not flattened, the larger size - marring have at least 2 yoke 'splats'. 9:30 - 3 adults in.

19 May 7:50 am Tag 2 pairs feeding.

22 May 6:22 a pair - ♂ hopping, aggressive others cooing

25 May 9 am tag. 1 pr., 1 ad & 1 juv.

28 May 6 pm an ad in, no tail except most lateral, hence white - tail feathers.

29 May 7:45 am 3 ads. 8:53 - 1 recent juv. 1 older juv. same molt.

31 May 11:51 Tag. pr. feeding & display & cooing

3 Jun Tag, 11:03 display flight to w.

11:10 am ♀ (?) looking on ledge, base of hill over - no feeding nestling. 11:28 - feeding - a ♂ with disheveled feathers on its chin-throat & its upper breast.

8 Jun. ♂ cooing

11 Jun. 9:38 am clear, 1 to w in flight display.

7:10 pm clear 4 ad & 1 juv. feeding, 1 cooing ^{in cedar}

Then 7!

16 June clear, warm no bird activity, but 3 juv. on the line 7' from house 12-15" apart.

21 June 7:16 2 ad; 2 older juvs., 1 real young juv.

22 June 6:18 pm Tag 1 ad & 1 juv. in heavy molt.

6:42 Tag - 2 pr on line preening & juv. ⁱⁿ nest

24 June 10:19 4 at landing (1 charging ♂) 2 ad

& 1 juv. on line. 5:51 pr. feeding & charged

in typical hopping fashion, & flew

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Handwritten text block 3, consisting of approximately 10 lines of cursive script.

25 June

7:42 overhead 4 ad & 4 juv. feeding

27 June 10:05 am Fog 3 in, including a
♂ with Rt leg splayed out - was a
difficult time crawling - first that
I've seen this condition.

29 June 3:51 light rain, ♂ on line E of
Pittos; a pair w/ it - ♀ has her right
wing held high to the rain. 3:58 2 other
(♂ & ♂) wings up briefly. 6:54 new lts
rain 10 over dadas feeding on line.

7:18 The lone R+legged 1 in to feed.

1 July 4:27 pm sunny 1 ♂ ad, 2 non-molting
juvs feeding

2 July 9:17 am clear non-molting single juv.

8 July 10:34 am clear, ♂ & ♀ on line, ♂
casing & display flights. A non-molt
juv. in earlier. 5:57 ♂ with splayed R+foot

15 July 11:11 am sunny - non-molting juv.
feeding alone; earlier a pair feeding

18 July 10:22 Fog pm on line, ♂ display &
casing.

24 July 10:07 am clear flight display to w
10:58 am casing on landing

25 July 10:39 am Fog 2 juv in to feed, no molt
with 5 or 6 others

30 July 9:53 am Fog 1 juv no molt, 1 juv very
heavy molt.

1 Aug 9:39 am 1 molting ? juv., 2 ad & 2
non-molting juv. 3:51 - 5 ad in.

3 Aug 12:43 pm 3 ad., 3 (non-molting) juvs
feeding

5 Aug a lone "ltz" juv. - no spots, short
scapulars & few small creases on
" of near chestnut feathers

Christman
1998

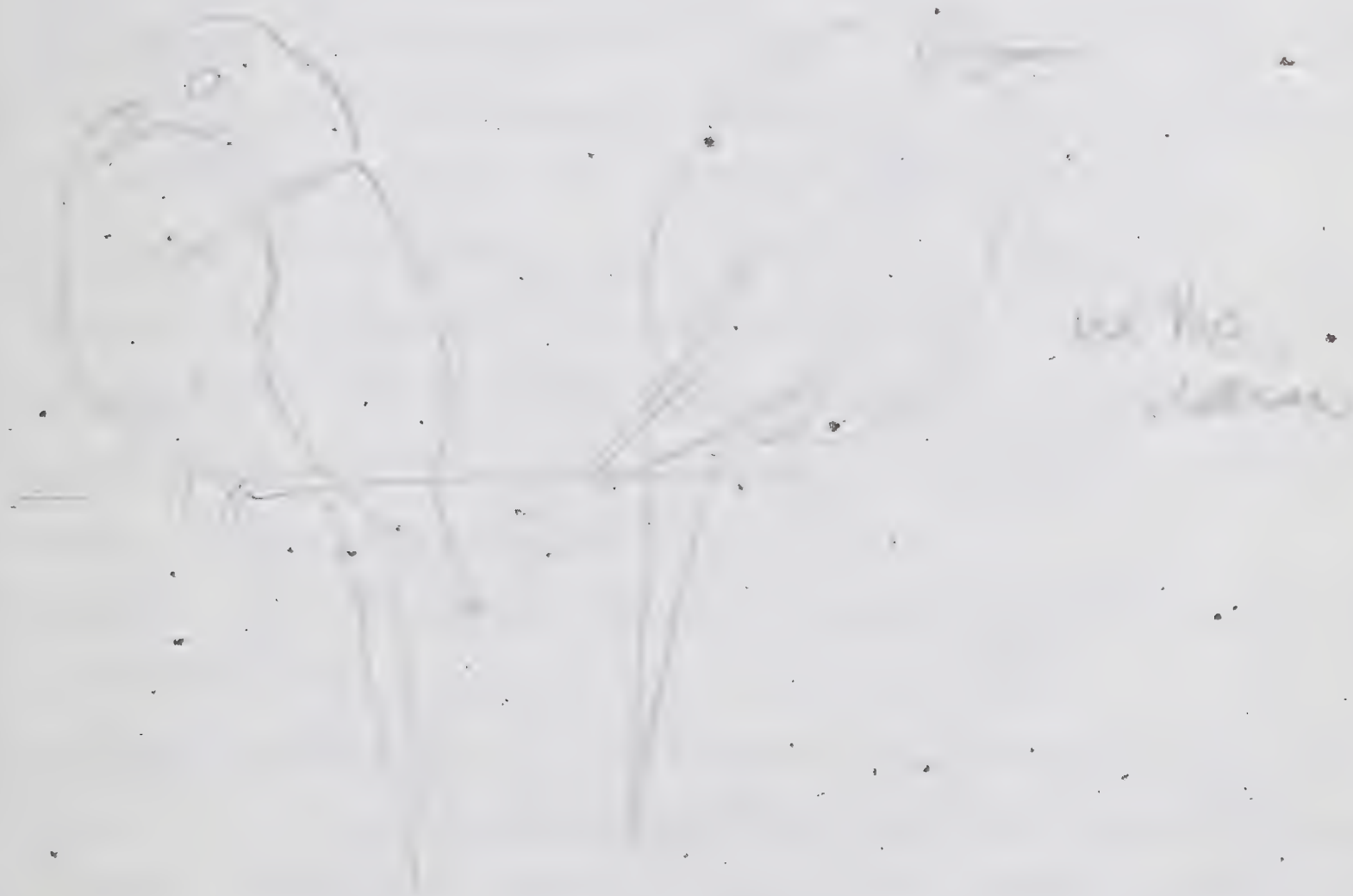
Zenaidura

29 Apr



4pm

displays to scrub
jay 8' away



Christman
1992

Tenaisura mar.

76

5 Aug.

4:34 pm clear - 5 feeding, 2 of which juv.

7 Aug. 9:40 am Fog 'coming' clear in

11:00 6 feeding - 4 ad., 1 late molting
juv. & 1 juv. no molt & many spots

8 Aug. 9:26 am a juv. (no molt) flew
in with a stick in its bill! - long
3-4 mm thick after perching on
ledge it dropped it.

11 Aug 9:33 am a pair in with 2 juv
in heavy molt.

12 Aug 6:04 pm heavy clear - 13 feeding -
almost half juvs! lots flew off before
I could be sure.

14 Aug 6:10 pm high, long arch of a dis-
play flight. Cloud cover.

18 Aug 4:59 1 ad & 3 juv. 2 molting - tame!

21 Aug 10:58 am clear; 5 ads. 2 non-
molting juv. + 1 molting juv.

28 Aug. 8:30 am 6 juv. feeding.

1 Sept 4:15 pm clear & feeding - 5 juv. molting &

12 Sept 8:15 am fog 15+ feeding; 9:25 3 ad &
1 juv (no molt). For many weeks - no coming
& no display flights.

14 Sept 10:58 am 1 ad, 1 young juv., 1 juv.
in molt.

22 Sept cloudy, 9:27 am doves in W. elm
high - 1 (attempted) copulation -
Have heard no coos & seen no dis-
play flights for 2 months?

1 Oct 7:30 am overcast 15+ feeding

19 Oct no doves about. Yesterday found
lots of dove feathers in back yard. 1 coo
killed - ? scared away 11 am. Cooper
Hawk seen. How long before they return?

[Faint, illegible handwriting at the top of the page, possibly bleed-through from the reverse side.]

[A block of faint, illegible handwriting in the middle section of the page.]

[A block of faint, illegible handwriting at the bottom of the page.]

1992-93 *Zenaidura mac.*

21 Oct,

only 3 or 4 about today, not consistently in elms, etc.

23 Oct 9:51 clear 3 roosting in mid part of NW elm.30 Oct 12:07 clouds 3 ad + 2 molting juvs.6 Nov 3:19 pm clear 14 loafing approx 1/4 NW elm. Doves about the nest as usual.28 Nov 3:35 haze 20+ feeding.10 Dec 2:55 light snow 16 feeding & working in backstop! They are hungry.29 Dec 7 am first light a series of incomplete 'coo's - first of year!31 Dec 8 am 2 full coos! rain coming in23 Jan 8 am. cooing!24 Jan cooing at first light. Then 7:15 \pm about 15 \pm feeding with a few coos (at least 1 ♂♂) and while feeding lots of muttering 'coo's' calls.2 Feb 4:03 10 feeding cloud cover6 Feb 10:15 ♂ charging, flying after & cooing to a reluctant ♀.13 Feb 9:10 earlier saw doves copulating in tree on Salom Ave. Doves cooing yesterday18 Mar occ. cooing especially early am.Now 10:52 occ. clouds move about in trees or feeding of late - probably they are nesting, or a accipiter has been about, ~~also~~ after the flocks of goldfinches. (cf.)21 Mar "cooing" at 6ish AM & 6:21 pm no other times - no other activity

[The page contains extremely faint, illegible handwriting throughout.]

Christman
1993

78

Lernaidura was

24 Mar

4:12 a dainty ♀ on ledge - took 4 min. to go down & feed. 7 see doves - early am, late pm for #. yesterday at 4:30 + 5 feeding

the most recently - must be nesting

27 Mar 4:12 ♂ cooing & jumping at ♀. Cooing in early am. Not many in tree

4:42 - 4:45 - 2 prs.

1 Apr 11:00 went out on front porch to go out - dove feathers on railing, on deck & on top of tree fern. Not there earlier?

Daughter of cat! a hawk? no feathers on upstairs feeding area. Only seen 1 about since 9:30 am. None in trees. 2:09 a pair on ledge, ♂ cooing & charging ♀ retreating - flew to N.W. elm

10 Apr 6:57 pm sunny 5 feeding & cooing
No young of year seen yet

14 Apr overcast a juv. small & shy is in plane! First of year.

1 May 11:16 am clear pair feeding, ♂ with 1 cop; plus a yearling juv.

2 May in' by 1 or 2 off & on 3:21 display flight

5 June 3:37 pm pr. in both nest corners ^{in a.m.}
of mouths! so have young - cooing

7 June Fog 7 am a tiny 1 in ? post-juv molt? very fragile one. 6:28 2 ads feeding

& a new juv. small tho slick appearance

9 July Fog 6:15 pm 4 ad & 1 juv. in feeding. Yesterday am. saw a ~~lot~~ juv. in a malt.

30 Aug 11:09 am Fog new fledgling in alone to feed.

Handwritten text, likely a letter or document, written in cursive script. The text is heavily faded and illegible due to the quality of the scan. It appears to be a single page of writing, possibly a letter, given the structure and flow of the script. The ink is dark, but the contrast is low, making the individual words and sentences impossible to decipher. The handwriting is consistent throughout, suggesting a single author.

1993-94 *Levaidura mac.*

19 Oct

5:50 10 feeding (1 is an obvious juv)
 none shaved up during street work.

6 Nov 4:37 pm clear sun going down

18 + about feeding - no juvs

28 Dec sun, 3:39 pm 15 + feeding no calls.

3 Jan. 94 7:50 am overcast. 1 load, full
coo - the first of year/winter, from
 landing.

9 Jan early dawn - first light a
 series of coos - sounds like a
 newly mature individual with
 incomplete phrases.

11 Jan. 9 + am patchy fog. ♂ charged ♀ full neck out
 no cooing, she retreated, he stopped.

4:11 pm clear calm 20 + feeding.

16 Jan mainly clear 2 cooing sessions.

26 Jan 3:29 status, dull light. 1 in ascend-
 ing flight - long glide = display flight
 for this sp. First since last year.

27 Jan 9:36 am clear 5 + feeding, 1 coo

30 Jan 4:28 pm clear some cooing.

12 Feb 10:12 am clear a copulation in NW
 clear on horizontal 4" branch 1/2 way
 up. Has been some cooing. 4:28 10
 in with hand-tails, latter preceded former

15 Feb after 6:30 dawn lots of explosive
 "who" calls as they fed early - do it
 think we heard this many!

17 Feb 3:43 4 doves in site rain - scrub

squawking from 5 - doves now flushed
 at last! weeds only 10-12 doves in
 no active courting - cooing of late

5 Mar has been some cooing. 4:50 6 feeding
 1 on line. Mumble dawn this year.

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the origin of life, and shows that the most probable one is the theory of spontaneous generation.

2. The second part of the paper is devoted to a discussion of the problem of the evolution of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the evolution of life, and shows that the most probable one is the theory of natural selection.

3. The third part of the paper is devoted to a discussion of the problem of the development of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the development of life, and shows that the most probable one is the theory of the development of life from simple to complex.

4. The fourth part of the paper is devoted to a discussion of the problem of the future of life. It is shown that the problem is one of the most important and interesting in the history of science. The author discusses the various theories of the future of life, and shows that the most probable one is the theory of the future of life from simple to complex.

Wistiana
94

Lernaiduna mac

80

26 Mar

6:02 Dave in to feed - no tail!

1 Apr a Juv in cave at 5:28 pm
typical hand on wing - lining! Tail

6 Apr 7:35 am clear 1 ad, 2 juvs! ^{same age}

8 Apr 10:30 am mid g. rain, 1 lone juv. in

11 Apr 9:29 am 1 juv. in feeding alone.

[on 6th the ad (?&) - no tail!

13 Apr 9 am clear juv. & ad in

22 Apr in a.m. cooing. 6:15 - 7 feeding ^{ad} ab

22 June 5:51 a mac juv. in feeding alone.

30 June 8: am. a little gray near juv,
newly fledged in cave. flew off.

12 July 6:03 pm clear Juv. resting on landing

17 July 9 ± fog ad in with young juv.

19 July fog 6:18 pm 6 ad & 1 juv with shivering

ac quivering wings - 3 towers. feeding ^{avidly}.

8 Aug 3:21 an ad ♂ in & a shy petite
juv. (rather large - ?♂)

17 Aug. juv. with 1 tail feather, short. so
probably 2 juvs. near.

13 Aug clear 10:39 am 5 in including 1 late
juv./no malt.

18 Aug 9:30 am dawn clear. 2 ad with new
tail feathers 1 1/2" long (about same size)

also a juv. no malt. 6:01 clear fog to w.

4 ad. (no short tails) & 1 ad. ad. ad. juv.

23 Aug 8:30 am fog 9 ad. & 3 juv. 6 pm fog

3 ad. 1 molting juv.

5 Sept 9:12 am hickory 2 juv. (no malt) ad ♂

13 Sept 5:39 pm clear 9 in feeding.

17 Sept 4:01 pm clear several times today
an ad & 2 juvs. feeding (1 with a little on head)

24 Sept 6:24 ^{pm} part fog. 12, of which 2 juv.

27 Sept 2:46 clear juv. in R. wing & breast ^{measured} up.

[The page contains extremely faint, illegible handwritten text, likely bleed-through from the reverse side.]

7 Nov.

4:01 15 feeding, clear, 1 juv.

There have been 10-20 feeding in late p.m.

11 Nov. noon clear, 1 juv. in heavy mist
- soon & thick at most 2 juvs.

16 Nov. clear now. 3:16 10 feeding, 1 juv.

18 Nov. 4:10 p.m. clear about 23 feeding

13 Dec. 1:45 rain - 15 feeding & 10 at 10 am

15 Dec. 3:18 clouds 18 feeding

5 Jan 95 yesterday & this a.m. 14 or 15
in feeding - no juvs.

12 Jan. 1:29 p.m. overcast wet landing

21 doves feeding, usually about 15.

26 Jan. 11 a.m. clouds - lone ♂ on line
which has given several "woos"
- which may be first of year.28 Jan. craning about 7:30 & at 1:30
saw 2 display flights.

13 Jan. several "woos" today!

16 Feb. display flights & "woos" today.

24 Feb. noonish fog. A smudge to feed down
a big patch of right lower breast feathers
stripping out 1" + ($\times 1\frac{1}{2}$ ") obviously an
injury - flight ok when it flew off.4 Apr. an ad. at 6 p.m. with no tail just
white undertail coverts.6 Apr. 4 p.m. clouds (no rain) - yesterday a
juv. appeared in p.m. - tiny, dark few
obvious buffy bands on wing coverts,and tried picking up millet. 3:30 today
had headed up only 4 or 5 white tipped tail
feathers, dark, wet again passing & hunched
up. A several J. in aggressively - juv.
flew to NE part of NW dm. 4 p.m. in

18

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to fading and the nature of the bleed-through.

Rüchman
23-96

Zenaidura macr.

82

6 Apr

(cont) is 1' from ad ♂ on line 12' from house. This has to be first progeny for does this year. I doubt if it can survive. Weak, tiny but can fly - and it found its father?

7 Apr 2:17 clauds. juv. & ad ♂ in to feed.

28 Apr 5:34 pm overcast sprinkle 4 does plus a new juv. in perfect shape!

17 June 10:12 am clauds 1 juv. in feeding alone good plumage, + maculations

10 Aug 7:03 pm clear 7. feeding - 1 a lot making juv. 2nd wing coverts banded.

17 Aug 9:26 am 1 juv. (older, no molt) in feeding with 2 ad. who are molting.

8 Sept 10:14 clearing fog. 2 late juvs feeding alone, in heavy mist - the smaller 1; the other probably a ♂.

19 Oct 10:26 am clear 8 feeding including 2 (new?) juv which are small, no molt and not near fledging other.

27 Oct 8:30 fog. 6 in feeding; 3 ad & 3 juv. no heavy molt.

15 Nov 9:38 ^{a.m.} fog. 7 feeding

20 Nov 9:50 am clear, cool. 10+ resting in SE portion of NW elm, 70' from top - all within 15' only. 2 close (- 2') together. They feed on the landing at dawn each a.m.

24 Nov 4:59 pm almost clear; 20+ feeding

4 Jan 96 4:18 pm clear 21+ feeding.

16 Jan 1:30 pm light rain. 10 feeding; 2 with short tails

1 Feb 4:11 clauds. a short "cog" & ♂ charged at 8:30 am prolonged "caring"

5 Feb clauds - a.m. several display flight

[The page contains faint, illegible handwriting throughout.]

6 May

2:30 pm Well quavers juv. large;

15 May a day of rain! 3:30 & on line on feeding, including a 1 bedraggled juv. small.

23 May clear 10 am 1 juv. (ad?) & 2 ad feeding

10 June 10:15 am clear 1 ad & 1 juv. in feeding. juv. is but advanced not ad.

14 Aug 10:15 am clear 1 juv. in alone.

16 Aug 10:58 am clear juv. heavy molt with 2 ad.

19 Aug 2:17 pm Fog 1 ad & 2 juv. no molt and fairly well advanced.

16 Sept 10:22 am clear / clouds 1 juv. feeding

- no molt, have been 9+ ad, 1 ad in molt.

7 Oct 9:25 am clear 12 feeding, rather flighty

1 Nov clear 1:30 \pm feathers began drifting down from roof - tail feathers, outer f. & wing f. - lots. also there have been NO doves in feeding as usual or in the Vireo, etc. Obviously a hawk about.

2 Nov. Fog 6:30 am 3 feeding, quavering.

9 Nov overcast 11 am. NO doves about.

5 Nov 9:06 am clear 6 in feeding.

11 Nov 10:45 am hazy clear total 9 about in elms - well into canopy / branches, in 2' or 3's. saw a 'strap' (?) far to W. earlier.

18 Nov 3:04 pm overcast 7 in feeding - no hawks

3 Dec 8:30 am a few clouds: 17 feeding!

1 Feb 1997 noon, overcast rather consistently up to 10 \pm in to feed every day. Mass at 1 time is about 20.

This a.m. the first bud "casing"

14 Mar 9:15 am almost clear 2 preening on ledge - no precap. beh. then copulated.

6 May no juvs. so far seen this yr.

18-10-1911
Dear Sir,
I have the pleasure to acknowledge the receipt of your letter of the 14th inst. in relation to the above matter.
The same has been forwarded to the proper authorities for their consideration.
I am, Sir, very respectfully,
Yours faithfully,
J. H. [Signature]

97

Zenaidura macr.

8 May

3:27 pm clear pr. on line 6' from house
bidding heavily then copulated.

16 July Fog 10:30[±] am a pair on ledge.
♀ light in color heavy body molt. ♂ in
good plumage best 2" tail, requires
no central brown feathers. Both doing
ritual preening. ♀ saluting ♂ up
close, crawling, etc. ♂ then pecking
at lower back not interested. They
finally copulated & flew to 5.

29 July 12:16 pm Fog pair feeding
with well feathered juv. - a new
one!

20 Aug. 4 ad & a beautiful little juv. - first
in awhile - 6:12 pm clear

27 Aug 10:05 am clear 2 ad & delicate juv. no molt

21 Oct 11 am Fog 1 new juv. small, alone.
slight molt top of head. 2:37 hazy clear
- another larger, older juv.

22 Oct 9:25 larger juv. in with ♂? ad.

17 Dec 10:21 am overcast & feeding - these
are probably the regulars, though reg.
nearly there have heard 10[±] all adults
there is no sign of molt now

10 Jan 98 light rain 7:45 am briefly cooing dove

26 Jan 10:04 am clouds pair copulated in
Pittospor. on 3/4" limb in middle of tree, 25' up
last open on S side. of w' coos lately.

27 July 10:28 am clear pair copulated on
ledge 8' from me.

6 Aug 9:52 am clear juv. on line, older, no molt
6 Nov 12:54 pm clouds after rain, 9 feeding
plus a new juv. smallish, no molt, good
plumage - haven't seen it before!

July 1900

My dear Mr. Brewster,
I have just received your letter of the 28th inst. and am
glad to hear that you are well. I am well at present.
I have been thinking of you very much lately and
wondering how you are getting on. I hope you are
as well as ever. I have been very busy lately
and have not had time to write you more often.
I am sure you will understand. I am
very truly yours,
J. A. Allen

My dear Mr. Brewster,
I have just received your letter of the 28th inst. and am
glad to hear that you are well. I am well at present.
I have been thinking of you very much lately and
wondering how you are getting on. I hope you are
as well as ever. I have been very busy lately
and have not had time to write you more often.
I am sure you will understand. I am
very truly yours,
J. A. Allen

Christman
1998

85

Zenaidura macr.

4 Dec.

10:05 a.m. a.m. 1 ad & 1 ad juv. in feeding
16 Dec a.m. Clear, juv. just starting to molt
in several times to feed.

13 Jan. 1999 Fog, 9:28 a.m. First display flight of
season - seen no other displays.

15 Jan. 10:28 a.m. a.m. ♂ in typical display
of charging & with inflated neck, etc.

24 Jan Clouds 7:30 a.m. several ♂ "cooing"

28 Jan 2000 8 a.m. loud cooing outside
window - a.m. 1st of new season

Christman
1988

Aeronautes saxatalis

1.

17 Apr., del Norte St., Berkeley, Alameda Co., Calif

one at 4:02 pm on windy day, from
N to S, 50' above trees. First of year.

4 May 4:09 pm 7 going N in wind; low, 100 yds
species?

4 June 4:34 pm one between shrubs; fast &
quick turns.

28 June 89 1 off tow. medium height.

14 June 90 4:41 pm 1 out to N swooping down

16 July 90 7:26 pm 1 low over top of cedar.

Mustang
987

Calypte anna

1.

23 July del Norte St Berkeley, Alameda Co CA
a ♀ all over front yard in oak, the
her perch is 75 ~~ft~~ up in the Atlas
cedar, NE side on a dead branch.
She does humming or flycatching
maneuvers from this exposed
perch (15' from trunk). Moves as 5 to
10' out, up & sometimes very
controlled up & down (to oak
18' below). also she makes dives
past her perch from 30' up, an
open "U", no noise, with wings
I inspected her closely - throat
with only a small patch of red feathers,
but sides of throat gray.
What are first yr. ♂ like? she's active
no ♂ in evidence.

21 Aug. The hummer that has been
perching in the cedar, N. side, 75' up,
is still there. Today got a good
look at it & there are more of a
garzette, especially sides of throat
so it may be an imm. ~~of~~ coming
into ad. plumage - it's aggressive
in sally from perch & about area
30 + yds. seems to have set up
a territory & same time back at that.

29 Aug 12:15 pm sunny ♀ on wire to
house & on bare branch on pitosporus
NE of house. no red feathers on chin -

25 Sept clear cool breeze - humming
on dead branch in cedar ~~at~~ as before,
almost everyday - it's a ♂ the
a little ragged on edges - it is
"hacking" or flycatching.

- 3 Oct. del Norte St., Berkeley, Alameda Co., CA
 dts. been around & on perch since
 in awhile - very hard to follow for
 it zips off at high speed & disapp-
 ears behind trees. No call or song.
- 31 Oct 9:45 pm 3 flying/chasing
- 4 Nov. saw two flying over elms to N.
 Not event for awhile.
- 6 Nov 4:37 pm heavy clouds & in top of
 Pitosporum on dead branch, has thin
 dull gorget. -
- 11 Nov. clear, 8:40 am & in top of elm
 to NW - sunning.
- 21 Nov. 9:48 am clear as yesterday (in
 light rain) two (?) zipped by too
 fast to follow - haven't seen them on ^{cedar} perch.
 10:12 am clear in top of elm sex?
- 2 Dec. cloudy, one dove down in front
 of house & over to elm branch in
 front of & near oak to NW. ♂?
- 3 Dec. Cordones Park. ♂ diving low
 over a small tree - couldn't see ♀.
 typical yapping noise; perched on top
 of a dead 10' tree - gorge to bright.
- 4 Dec 11 am rain, 2 flying together over elms.
- 15 Dec. light rain 10:45 am two flew
 past rapidly from NW to S. Have seen
 the two fly by fast this past week.
 can't follow them, 11:24 am ♀ landed
 on twig beyond canopy of oak,
 on NE side 8' from top west part
 of tree, then flew as I write
- 24 Jan (Anna's house in Palo Alto = one was
 collecting the fluff from the ananias
 in her back yard, d, in chair, 24" - 3' from it

Christman
1988

calypte aurora

3

- 5 Jan ~~Dec~~, del Norte St, Berkeley, Alameda Co, CA
3 flying high & fast over elms at 11 am
11:12 am one hovering at 2 sites on oaks
briefly, then to N.
14 Jan 11 am cloudy one high in W. elm -
Sun out.
15 Jan 12 noon cloudy, ♀ at old heads
of in front yard. Has a small
the noticeable gorgett 4 pm two zipped
by fast in front of upper windows
from N to S.
22 Jan clear, windy ♀ near top of the NW elm
the branch is see-sawing. This is another
bird in an advertising stance. Is she
advertising for a mate? 12:30 after 3
minutes she flew down. 3:18 pm one high
in elm up the street (middle tree) - flew
27 Jan 4:32 pm high & medium clouds one in top
of the NW elm 25' from the Q. agrifolia
28 Jan 1:55 pm one on upper branches of the
NW elm.
30 Jan a few high clouds 11:01 am a ♂ with
full gorget on top twig of NW elm
on SE sector - beautiful flash of color
this is first good view of ♂ since last sum-
mer - flew off. 11:36 am 2, a foot apart
zipped over yard over trees to SW. 11:38 am ♂
back to branch in elm. slight to E.
5 Feb. 4:30 pm 1 in top of elm to NW and 2 in fast
8 Feb 12:53 pm ♂ in top of NW elm for 3 minutes
9 Feb 4:50 pm - two flap past, high from SW
15 Feb 9:27 am - two flying fast to gether,
past window to S; then about the NW elm.
4:00 pm ♀ collecting fluff from anemones in
front of house must be nesting.

Christman
1988

calypte anna

4

16 Feb., del Norte St., Berkeley, Alameda Co., Calif.
9:10 am a big chase, fast & wild,
about the NW elm. That seems to be
the center of activity.

18 Mar 8:19 am one chasing another - not
real fast around & over elms.

30 Mar. ♀ type plumage hovering near Pittos ^{one} at 9:48

7 Apr 4:35 pm clear warm one dashed by
N to S high over elms & to S dove down.

10 Apr. 10:20 am for the first time since
last summer ♂ on dead branch in W
cedar. changed position several times.

11 Apr 8:15 am in same perch post - buzzed
about needle clusters then flew SE.

12 Apr 11:14 am one briefly on dead perch in
W cedar. Windy & foggy.

15 Apr 10:30 am. ♀ hovering about canopy
of oak E side, mid-height then briefly on
dead branch of Pittos. It had a suggestion
of a target.

28 Apr 2:54 pm scattered clouds, one over
high to N. - first die seen in some time.

7 May 12:45 pm sun after sprinkles. ♀ type low
over studio w - landing; investigating ^{wall} ~~with~~
First, closeup view in a long time!

20 May ♂ hovering between elms 90' ±, then to
perch on top of NW elm (house & perch) then to W.

26 May 3:54 pm 2, chase S. over oak to W.

10 June one briefly in front yard hovering
over oak, then high over elms to W.

13 June 1:33 pm one new dull one hovered
in front mid-air up & perched 30 sec on
dead branch of cedar then buzzed off to N.

19 June 10:04 ^{ann} ♀ hovering about Pittos.

Christman
1988

Calypte anna

5

27 June, Del Norte St., Berkeley, Alameda Co., CA
11 am ♀ plumaged 11 am feeding on
flowering Cotyledon succulent
flowers on front porch.

5 July 9:52 am ♀ type on line, flew high to W.

7 July 10:39 am ♀ " hovering about line
with house finches, then about cedar &
seemed to pick something off hanging
cluster of needles. Then back to line area
hovering, ♀ house finch flew W at height
of line, hummer followed it & buzzed
it once, then hummer to N. W. dir.

18 July ♀ type plumage on end of cedar branch
briefly at 10:56 am flipped tail (wings?).

12:33 pm ♂ on dead branch 4' from where ♀
was perched. First ♂ I've seen in a long time.

19 July 11:21 am 2 hovering about oak & then
off fast. Several zipping past earlier ^{single}.

20 July 11:57 am ♀ on line near House F. briefly

22 July 9 am ♀ apparently feeding on
blue flowers clusters of Agapanthus in
neighbor's yard. 3-4' above ground.

10:02 fog two chasing over NW elm & in
tree among smaller branches & leaves.

1:23 pm. ♀ chased a chickadee into
canopy of N part of oak, then 5' away
to line for 30 sec., chickadee out
on edge of canopy again, hummer
hovered 2' from it. chickadee flew
W with hummer after it!

25 July chickadee on line at 10 am - ♀ hummer
which had been on dead branch in cedar
flew down to 3' from it & returned. I didn't
fly. Hummer now using the old perch

Christman
1988

calypte anna

6

27 July, del Norte St., Berkeley, Alameda Co., CA
a.m. a ♀ plumage bird is now head-
quartered about front yard & using
the dead branches of cedar, as ♂ last summer.

1 Aug 10:15 am. broken fog, hazy sun.

on dead branch of Pittos (♀ type plumage)
then hovered & picked some things -
insects or spiders - off green leaves of
the Pittos. Also, on dead branch of cedar.

12 Aug 10:30 am. one hovered 30" from
song Sparrow on line. Got a glimpse of a
narrow ventral midline garter on the
throat - so a juv. ♂ first evidence
of a local imm.

13 Aug ♀ on end of vertical branch in oak
at 10:58 am - diffuse sun. a very small
garter on throat - midline on gray throat,
chin & upper breast. This doesn't look like
same bird as yesterday, but haven't
seen them together.

14 Aug 10:40 am fog, same bird perched on
top vertical branches at top of oak.

1:31 pm was perched on dead limb, etc 2/3 up
in cedar, has been flying about W & NW
dms. Also, same irregular downward
flights as if after insects. Suddenly 2
more showed up. It appeared that the
local ♀ chased another high to N and one
of the new ones where resting bird was
in cedar (it also appeared larger).

17 Aug 10:34 am clear. One has been hovering
over oak, then another showed up & both
zipped off to W over the shrubs. 5:30 pm ♀ under
maple gleaning from leaves of oak.

disturber
1988

calypte anna

7.

17 Aug. del Norte St., Berkeley, Alameda Co., CA
This was under leaves among twigs
"the Twigery". Perched briefly on
1/4" branch.

26 Aug 11:24 am one has been flitting out
yard & neighborhood. It has perched twice
on twigs under the canopy. 74° F out
side, this time. Not & day.

27 Aug. 11:38 am scattered fog, cool, & feeding
at the first white flowers of the Pittos.
Also it was perched on dead branch
in cedar - sallied high over the oak
& N 30' to zip about in an erratic way
including tumbling down 20' - as if
it was after flying insects.

27 Sept two flew over S elms at 8:52 am
4:33 pm one in very top of NW elm

(long shadows now days - high thin clouds,
69° F out side - the branch up there is semi lit,
at very end of 8" branch - let under 1/8", peering
about - back to sun. 4:41 pm flew down to W.

28 Sept 9:30 am 'on end of S. branch of NW
elm briefly - can this only happen
when branches are leafless? can't
see them among leaves!

30 Sept. 8:57 am one in top of NW elm for 30 sec.

back toward me & the sun. Two have
been in high speed chases off & on all day.

3 Oct 10:39 am fog. A full ♂ on top of elm
limb behind near cedar - tap tap branch.
First ad. ♂ seen in long time.

4 Oct 9:23 am chases through yards over
top of oak.

5 Oct 9:08 am fog. ad ♂ hovering about Pittos

Christman
1988

calypte anna

8

6 Oct., Del Norte St., Berkeley, Alameda Co., Calif.
a ♀ at 11:07 am line & on dead branch
of Pittos. Went to several clusters of white
flowers on that tree.

14 Oct ♀ foraging in W elm near top at 8:24
am. Drizzle. It frequently changed
perch, darting among tree top; to NW
elm on top, then to W elm & fast to E
over the house. It is also frequently
seen in middle of the oak.

15 Oct. SEF cardinal's psaltria

18 Oct 8:46 am one in top of W upst. elm
with back to sun. ? I think this is a ♂ ?

19 Oct. 9:25 am one (or two ?) flying fast
over neighborhood, landed briefly in
very top of NW elm several times. 1:10 pm
♀ to two clusters of white flowers & went
into the canopy / among major branches.

21 Oct 12:32 pm ♀ on dead branch of Pittos
20' + up, cautiously peering about then
off fast to E between houses.

22 Oct. 8:30 - 9:30 am at least one frequently
in top of elms on smallest vertical branches
& frequent high flights over trees. One
appeared to have a full throat - a ♂ ?

28 Oct. what I've seen lately is two flying
fast over trees, etc.

3 Nov light rain 10:05 am 2 flew over W elm
very fast to W. Seen this everyday.

7 Nov 2:29 pm several times today ♂ on
top branches of NW elm - bright red flashing.

9 Nov 11:40 am ♂ 70' up on S side of NW elm

12 Nov 2:43 pm ♂ in top of NW elm briefly.

15 Nov 11 am " " " " " "

Christman
1989-89

Calypte anna

9

- 18 Nov, del Norte St., Berkeley, Alameda Co., Calif.
10:17 am clear 49°F ♂ top of NW elm briefly
23 Nov 9 am 2 3' apart flew fast N-S, tree top
26 Nov 3:15 pm clear ♀ in top of NW elm,
another in top of elm up st. 60' away - ♂ I guess
28 Nov 4:04 pm ♀ top of NW elm, clear, no wind
30 Nov two days of wind & no high perches
but both days in ones, they flew past window
fast in all directions. high atmospheric pressure ^{no activity}
5 Dec 11:59 am 2 in top of NW elm 15' apart & flew
9 Dec 3:54 pm ♂ in top of NW elm, slight breeze
17 Dec 4:09 pm one calling from near cedar (S)
26 Dec 12:49 pm ♂ hovered high over yard
then perched on vertical oak branch looking
about - then flew off to S.
27 Dec 12:23 pm light rain; one in very top
of NW elm for a minute \pm . 2:53 pm back
at same perch.
29 Dec 9:18 am ♂ in top of S part of NW elm ^{8' away} robin
12 noon ♂ in top of NW elm; flew high off to NW.
4:27 pm ? in top of NW elm - high above - sun near horizon.
31 Dec 10:51 am for a minute 1 (♂?) top of NW elm.
4 Jan 89 3:55 pm briefly in top of NW elm ♂
6 Jan 2:52 pm ♂ hovering about top part of oak
and lit briefly then flew N.
15 Jan 12:14 pm 2 70' up between trees, etc
two nose to nose, a flash of red & bath
off to SE - territorial defense? at least
one was a ♂
30 Jan 1:30 pm ♂ in top of NW elm; first he
saw a hawker in auburn. in 2 minutes was
changed perch five times. The garget flashes
even at distance with no glasses. some wing
7 Feb ♂ close about feeder & landing briefly at 1 pm

Christman
1989

Calypto anna

10

1 Feb. del Norte St, Berkeley, Alameda Co., Calif.
12:50 pm ♂ about edge of the canopy
then into oak - under the canopy
35' up NE side. Flashing green.

6 Feb cold windy. ♂ hovering briefly high
over yard, then dove into oak.

15 Feb 12:42 bright sun; ♂ on vertical branch
in very top of W elm for 15-20 sec. flew off. 1:09
big fast chase of 2 E then N; - 36" apart.

16 Feb. 11:07 am ♀ flying - hovering on edge
of & within canopy of N end of oak; then to branch
of elm 35' up over the street - small & only
a few red throat feathers. then off. ds it nesting?

18 Feb 10:21 am 2 a chase high over elms to W

7 Mar 3:54 pm darts - 2 in a high chase ^{late}
around N elm & off to NE. Not much in evidence ^{in a}

1 Apr 4:08 pm ♂ briefly in top of N elm - first while

3 Apr 1:19 pm deer; ♂ hovering then perched
in W elm - N side small branch 24"
from edge of "canopy" new leaves out.

13 Apr several times have seen first 2,
then 1 fly by fast. Not much in evidence.

20 Apr. 10 am ♂ (?) low in front yard.

23 May ♀ type at 9:03 am hovering around
oak 6' from top briefly.

5 June 9:50 am 2 flying by fast - a chase?

8 June am ♀ low in front yard & one flying fast
thru the yard several times

15 June 3:30 pm broken fog. ♀ front yard
was picking bits of white fluff from old
anemones under porch - flew off to NW.

27 June fog - 8:39 am one flying fast about
yard - have seen several times/day for week ±

30 June see sharp shinned hawk over oak.

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to the quality of the scan and the nature of the bleed-through. Some faint words like "The", "and", "of", "the", "in", "to", "for", "with", "on", "at", "by", "from", "as", "is", "are", "was", "were", "be", "been", "have", "has", "had", "do", "does", "did", "shall", "should", "may", "might", "must", "can", "could", "will", "would", "do", "does", "did", "shall", "should", "may", "might", "must", "can", "could", "will", "would" are visible.

Christman
1989

Calypte anna

11

21 July Del Norte St., Berkeley, Alameda Co. CA
2:15 pm one close to windows in front
of me - checked out feeder & overhang
of roof - prob. juv. no red on throat.
a ♀ seen earlier on branch of Pittos.
then another landed on line 9' from
house - ♀ or juv. Haven't seen ♂ for
long time.

9 Aug have seen ♀ (or juv.) as new
at 9:35 am about, especially about
Pittos. feeding on white flowers or
perched or flying past.

31 Aug 4 pm front yard on among
annonois - dull, probably in mist
saw some red on top of head.

1 Sept 8:17 am fog and hawking over
apple tree - a brief red flash - so
new a ♂. The ♀ is considerably lighter
ventrally.

6 Sept 9:49 am ♀ or juv. (no red on throat)
on line 9' from house. Sp. seen several
times a day zipping past.

15 Sept a juv. ? no red on throat has
been about everyday for a week + and
frequently perches on line near Pittos.
very briefly. Also a hummer ? ♂ in
top of NW elm at 9:30 am. and two
hummers flying close to each other
over tops of elms.

23 Sept 3:49 pm fog; same juv. ? bird on line

3 Oct seen everyday likes a sparrow on line
9' from house, usually stay 5 sec. also near
top of NW elm; other than that - zipping about
neighborhood.

11/10/19

Dear Sir -
I have the pleasure to acknowledge the receipt of your letter of the 10th inst. in relation to the above matter.
I am sorry to hear that you are having trouble with your machine.
I will be glad to help you in any way I can.
Very truly yours,
J. H. [Name]

Christman
1989

Calypte anna

12

11 Oct. ~~del Norte St, Berkeley, Alameda Co, Calif.~~
9 am got a quick look at what seemed
to be a ♂ none later in the day.

15 Oct 10:11 am one hovering among upper
branches of Pittos. 25' up its very man-
euverable among leaves & branches.
Sp. seen nearly everyday but always
going somewhere.

21 Oct 9:25 am light rain, one hovering over
oak then perched on hanging dead branch
on N side of near cedar. It's a ♂ good
look at it.

22 Oct 9:25 am ♂ on end of branch in NW
elm 5' from top - a bright red flash.

10:22 am dove flew into NW elm followed
by ♀ Hummer. That landed in top 3' from
it on end of branch let.

25 Oct 10:21 am two flying close together
over oak. One landed on near horizontal
branch of W elm (near end) at top &
other dove at it in steep dive. Perches
flew to top of NW elm briefly.

27 Oct 8:45 am ♂ on line 4' from house. Have
seen one & 2 together zipping past everyday.

30 Oct 10:05 am ♂ highly on ~~the~~ cedar tip
of branch - wind - off.

2 Nov 10:07 am 2 high over elms to N
a foot apart.

3 Nov 8:45 am ♀ on high - 1/4" branch of NW elm -
there is a thin garçette on median throat.

11 Nov 9 am ♂ on end of NW elm branches, high
12:06 pm ♂ hovering high.

16 Nov 10:10 + am one has been hovering high half
way between me & top of NW elm. Then two

1989-90

Calypste anna

- 20 Nov., del Norte St., Berkeley, Alameda Co CA.
 ♂ several times today hovered between
 here & top of NW elm. No pendulum flight
- 21 Nov 12:16 pm ♂ in among foliage of
 Pittos (no flowers, but lots of orange
 berries).
- 1 Dec 11:53 am ♀ buzzing about over front
 yard then perched on small twig near
 top of NW elm for 30 sec +.
- 6 Dec 11:14 am ♂ (saw red) hovering high
 near NW elm in familiar area. 4:15 pm
 ♂ at top of NW elm.
- 9 Dec clear 10:54 am ♀ 8' from top of NW elm ^{45° Dec.}
- 12 Dec 9:46 am ♀ in top of NW elm 45° F.
 has been back several times, flies off, returns
- 14 Dec 12:17 pm clear several times this am ♀ in top
 of NW elm briefly - rarely more than 30 sec.
- 16 Dec. 11:38 am ♀ gleaning on outside of canopy
 for 30 sec. then off. white flowers are
 now appearing on Pittos.
- 30 Dec 9:38 am ♀ has been foraging off oak
 (E side, in sun, 20-25' up) hovers 5-8"
 from leaves then into prob up something
 - with tongue? 2:30 has been back to same
 area in oak - after 10+ sec flew low off to N as
 before.
- 1 Jan. 3:21 light rain. one W side of oak - the
 first seen today - immediately another
 bigger one done from N & both disappear-
 ed to W. 30 sec. and returned over house
 from W. was this territorial defense?
- 2 Jan 9:20 am = 40° F ♂ on high vertical twig
 of NW elm back to sun. high head!
- 30 Jan ♀ every day about canopy of oak.

disturbance
1970

14

calypte anna

13 Jan. del Norte St, Berkeley, Alameda Co CA

1:30 pm rain tapering off. ♀ gloaming
on outer edge of oak canopy. active
every day. another ♀ appeared briefly
at SE corner of oak, but returned to SE

23 Jan 2 pm ♀ collecting "fuzz" from heads
of armoines in front yard 5x5 m irregular
glob & flew SW across the street. Is nesting
has begun.

5 Feb both ♂ & ♀ absent oak today

8 Feb 3:39 pm successful 1 tap of NW elm - 2 times
40" and 12' from a scrub jay.

26 Feb 11 am fog, ♂ & ♀ ? face off in
flight near oak 30' up - momentary
♂ gaudet flashed brilliantly.

15 Mar not seen frequently of late
but SEF SCTUB Jay Acct.

24 Mar. bright red ♂ over house to upper
1/3 of NW elm at 3:20 - perched.

29 Mar 10:22 am one made a sweeping
horizontal pass at what seemed to be
a goldfinch 8' from top of NW elm - among
the samaras. Then up 25' & dove down
almost vertically at small bird, then
a rising arc & off to S. It was a big
hummer, so perhaps a ♂. Fisty bastards.

4 Apr 12:09 pm ♂ tap NW elm, 36" from
house perch for 1 minute + then to top SE
elms. a big bird with large head.

12:16 pm same one NW elm 10' from Stellas
J. if flew here another flew in to less than
20" from hummer which flew off.

5 Apr 1:15 pm 2 Stellas J's on ledge - ♀ hummer
is hovering 3' away from one.

Christman
1990

15

Calypte anna

- 23 Apr., del Norte St., Berkeley, Alameda Co.
10:16 am ♀ perched on line 12' & 20'
from house briefly. First L's
seen of them for some time. Could
this be a juv?
- 25 Apr 10:08 a ligane from NE perched
briefly 40' up in oak & flashed a red
gorgette - hovered about & returned
to NE fast.
- 1 May 8:40 am 1 flying fast bet oaks - NW elm
- 2 May 2:35 pm ♀ gathering the "fluff" off
of old evening flower heads - flew
vertically & over house, etc to NE.
- 8 May 9:32 am ♀ gleaning off oak leaves
3:32 same.
- 9 May 8:55 am ♀ gleaning oak new E
earlier. 9:25 am same. 10:06 back again.
1:01 back. 2:43 same.
- 10 May 12:06 pm same, 1:14 same, 3:33 same
- 13 May 10:37 same
- 14 May 9:29 am. same & its flying to E & SE.
10:34 same.
- 17 May 8:30 am 1 landed on line adjacent to
Pittos. throat gray, no red feathers. a juv?
- 23 May 11:49 ♀ back foraging edge of oak canopy
- 30 May 2:54 pm windy 1 over NW elm fast
to SE over house. all I got is glimpses
- 6 June broken fog & about oak, at 3:02 on top
of vertical leaf (on v. branch) E side of w red fath.
- 9 June 10:51 am 2 fast (a chase?) from W to
SE over trees - very fast.
- 24 June 10:23 am ♀ briefly on line near to
Pittos. have seen this sp. flying over, etc all this time.
- 2 July 8:51 am ♀ briefly on the dead branch of cedar.

Christman
1990

16

calypte anna

- 15 July, del Norte St., Berkeley, Alameda Co., CA
2 ♀ types in oaks then both fast to N
1' apart - a chase?
- 27 July 9:34 am fog. 2 rising high over
oak & elms to W, then came down &
separated & flew high to N & NE. This did
not appear to be a chase.
- 8 Aug 9:35 am very briefly 3 over up st
elms. 2 down & 1 up 40' & came down
to tree top level. Only quick glimpses
of this sp. in past week or so.
- 17 Aug 10:08 am scrub jay flying out of NE
to SW high being chased by anna H. a
yard behind it then high arc to NW.
- 22 Aug 10:15 am ♂ flew over house from low
& W. Brilliant flash of gorget.
- 29 Aug 2:58 pm ♀ with small red gorget hover-
ed about feeder with 1 house finch at it.
- 2 Sept. 10:14 am clear, from W a robin - chased
by hummer - former landed high in cedar.
- 4 Sept 8:27 am, fog, 1 ♂ low, N side of oak &
fast to E over house - huge red gorget.
- 20 Sept have seen almost everyday zipping
high overhead - that is about all.
- 21 Sept 10:11 am clear 2 in very fast
chase NW over elms then high to SE
where they came from - territorial?
can't id. individuals.
- 25 Sept 10:03 am. Dove high in NW elm flew
W then N over elms - this sp. chased
it out of view to NW, over & above dove.
Escort out of neighborhood.
- 14 Oct 4:14 pm 1 from S to top mast branch
of NW elm briefly - a big one - a ♂?

(1990-91)

calypte anna

28 Oct., del Norte St., Berkeley, Alameda Co., CA.
 last several days lots of high speed
 ? chasing? over neighborhood - mostly
 by 6-10" apart, all directions. I visited
 or saw?

26 Nov 9:36 am ♂ flying about canopy of oak

31 Dec 10:49 am for 1 min. 1 (♂?) at end of
 small terminal branch of NW elm 8' from top.
 It flew down to N.

1 Jan 91 2 from NW house height real fast
 at 3:40 pm 1 was briefly top of NW elm pm

2 Jan 11:05 am 1 for 30 sec. top NW elm ♂

4 Jan 11:28 am lots of chasing past oak - two

19 Jan 11:55 am ♂ top NW elm, red flashed

12:15 pm ♂ back in mid section of NW elm SE
 side & then another flashed by - no dives

23 Jan 9:45 1 made 2 broad deep dives
 at or near B-t pigeon in top of up at
 cedar. Earlier 1 briefly in top NW elm.

1:14 pm 1 hovering - gleaming on N side of oak

2:11 same many & fast changes of position

2:30 briefly ♂ (red flash) in top of NW elm.

du poor light ♂ have a "bullhead" than ♀

28 Jan 2:04 pm last several days - ♀ manner
 hovering 2-5' from edge of oak canopy
 then zapping in & briefly - 1 made adjacent
 such passes before flying N.

29 Jan 9:26 am 1 top NW elm for 30 sec high head
 finally saw flash of red. 11:20 2 flying

fast & a yard apart over elms to N & to S.

30 Jan 2:04 pm same as above hovering about oak

3 Feb 3:23 pm clearing 1 up 125' over to W &
 dove down vertically 1 time.

12 Feb 9:15 am 1 high head 1 in top NW elm briefly

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the business to have a clear and concise record of all income and expenses. This will help in the preparation of the annual financial statements and will also be useful for tax purposes. The second part of the paper discusses the importance of maintaining accurate records of all assets and liabilities. This will help in the preparation of the balance sheet and will also be useful for tax purposes. The third part of the paper discusses the importance of maintaining accurate records of all equity transactions. This will help in the preparation of the equity statement and will also be useful for tax purposes. The fourth part of the paper discusses the importance of maintaining accurate records of all debt transactions. This will help in the preparation of the debt statement and will also be useful for tax purposes. The fifth part of the paper discusses the importance of maintaining accurate records of all other transactions. This will help in the preparation of the other statement and will also be useful for tax purposes.

Christman
1991

18

Calypte anna

12 Feb., del Norte St. Reddy, Plameda Co., Calif.

11:25 ♂ top of NW elm huge flash of red!

14 Mar. 9 am saw 3 together high over St.

2 Apr 9:04 am clear, ♂ on 1" branch high in NW elm 25' from top. There have been 2 flying past at speeds - over top of house, etc.

10 Apr 9:25 am clear, ♂ (red flash) in top 15' of NW elm.

2 May 10 am 1 flying close about top of Pittos

11:18 1 flying about white Pittos flower clusters.

6 May 9:51 am 1 raising slowly, vertically behind cab 70' up then down vertically! This is rare. could not hear any snap, etc.

18 May the Allen H. about; have not seen Anna's H. in same time. territorial displacement?

19 May 11:04 ♀ about white flower clusters on Pittos.

18 June 12:05 ♀ about cab. where have they been?

21 June 10:27 am ♀ on edge of oak canopy.

27 June 8 am overcast & hovering about Pittos.

8:27 1 flew NW elm to 5' after a scrub jay in same in same direction.

3 Aug pm 1 at side of house at geraniums & nystersum flowers - red & orange; ♀

6 Aug 9:54 Tag ♂ on line twice bet Pittos & cab

10:08 ♂ about S. Pittos

14 Aug 9:03 am ♂ on line briefly.

17 Aug a.m. 2 flying about together, 10:36 ♂ over Pittos.

15 Oct 11:28 am clear 1 top NW elm; ♀ or juv. ♂

18 Nov sun behind cloud 4:28 1 top NW elm awhile!

23 Nov 4:03 high hummer top NW elm (♂?)

The first part of the report deals with the general situation of the country and the progress of the work done during the year. It is followed by a detailed account of the work done in each of the various departments, and a summary of the results achieved. The report concludes with a statement of the work planned for the next year.

The work done during the year has been very satisfactory, and it is hoped that the results achieved will be of great value to the country. The progress made in each of the various departments has been very good, and it is hoped that the results achieved will be of great value to the country.

The work planned for the next year is very extensive, and it is hoped that the results achieved will be of great value to the country. The progress made in each of the various departments has been very good, and it is hoped that the results achieved will be of great value to the country.

Christman

1991-92

Calypste anna

19

24 Nov.

10:06 am 'clear' 2 in fast chases above yard.
2 Dec 2:11 pm 1 end of NW elm branch - NW elm
20' from top - a ♂, another flies up &
it flights straight up.

11 Dec 9:09 am clear a big ♂ has been about
usually near top of NW elm at end of near
vertical small limbs. Is it time to set
up territories?

30 Dec 10:11 ♂ up high over cab then to very
top NW elm.

31 Dec 9:am clear breezy a big 1 top NW elm.

27 Jan 92 2:48 pm calm, a nest a ♀ has
been hovering about & perched on oak limb
on N side of tree. They haven't been seen much.

29 Jan 2:16 clear ♀ back to same part
of oak - hovering probing actions.

11 Feb 1:30 pm misc. clouds. ♀ (with red throat -
smallish) at dead anemone dead stalks
& collecting till full of dawn! Flew S high!
So nesting time. 1:48 breezy & clouds - 1 ♂
at end of 1 of top NW elm branches, flew S.

26 Feb 4:39 pm clear, calm, 1 to top NW elm briefly

19 Mar Maryanne Melcher called - a
hummingbird 'nesting' out Kitchen
window - feeding young - how to
protect from scrub J?

25 Mar 10:16 am cloudy ♀ or Juvs near top NW elm
10:33 a ♂ at very top of NW elm.

27 Mar 10:24 am fog ♀ briefly 10'± chased
tumble line to ledge then approached
D-4 with 1 ♀ finch - didn't chase. 'spidey'

25 OCT 93 big ♂ briefly at D-4 at 4:55 clear

2 Nov 2 pm clear 1 ♂ briefly at white sixed flames
his forget flash

The first part of the paper is devoted to a discussion of the
 various methods of determining the rate of reaction. It is shown
 that the most reliable method is the use of a differential
 method. This method involves the measurement of the initial
 rate of reaction, which is the rate at which the reaction
 begins. This is done by measuring the change in concentration
 of the reactants or products over a short period of time.
 The second part of the paper is devoted to a discussion of the
 various factors which influence the rate of reaction. It is shown
 that the rate of reaction is influenced by the concentration of
 the reactants, the temperature, the presence of a catalyst,
 and the surface area of the reactants. The third part of the
 paper is devoted to a discussion of the various types of
 reactions. It is shown that reactions can be classified into
 three main types: synthesis, decomposition, and displacement.
 The fourth part of the paper is devoted to a discussion of the
 various types of equilibrium. It is shown that equilibrium can
 be reached in a reaction, and that the equilibrium constant
 can be determined. The fifth part of the paper is devoted to a
 discussion of the various types of acids and bases. It is shown
 that acids and bases can be classified into strong and weak
 acids and bases, and that the pH of a solution can be
 determined. The sixth part of the paper is devoted to a
 discussion of the various types of salts. It is shown that salts
 can be classified into soluble and insoluble salts, and that
 the solubility of a salt can be determined. The seventh part
 of the paper is devoted to a discussion of the various types of
 organic compounds. It is shown that organic compounds can
 be classified into alkanes, alkenes, alkynes, alcohols, and
 aldehydes. The eighth part of the paper is devoted to a
 discussion of the various types of inorganic compounds. It is
 shown that inorganic compounds can be classified into oxides,
 hydroxides, and acids. The ninth part of the paper is devoted
 to a discussion of the various types of polymers. It is shown
 that polymers can be classified into natural and synthetic
 polymers. The tenth part of the paper is devoted to a
 discussion of the various types of materials. It is shown that
 materials can be classified into metals, non-metals, and
 composites.

Christman
1993-94 calypte anna

20.

3 Nov

9:28 am clear ♂ hasb at several sisal flowers.

4 Nov 10:42 am clear ♂ briefly at above.

1:57 same again.

5 Nov 9:15 am clear ♂ feeding at 5 flowers on sisal that are in view.

14 Nov 10:25 am clear & windy ♂ at sisal fed at 4+ flowers in view one for 5 sec.

24 Dec 8:20 am clear ♂ at sisal flowers

10:28 am ♂ on uppermost twig of New elm.

6 Jan 94 11:19 am clear ♂ feeding at several sisal flowers.

5 Oct 3:48 pm clear, calm 2 (1'±) apart & fast over trees to NW.

21 Oct 95 3:30 pm clear 2 in close pursuit to waver tree tops. 1 flew S, other landed in top NW elm. This sp. not at all evident today.

26 Oct 98 2:24 clear, 2 on high small limbs of NW elm 10'± apart for minute + they have been nuzzling & preening.

3 Feb. '99 12:16 pm clear; 2 flying fast up over NW elm. a ♀ been foraging on outer edges of oak lately.

22 Mar 1:35 pm clouds: 1 ♂ to fast matt at front door & flew off with shield cat hair (sis)!

[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]

I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I will write to you again soon.
 I love you very much.
 Your affectionate mother,
 Mrs. J. H. H.

Christmas
1988-89

Selasphorus sp.

1.

29 Apr., del Norte St, Berkeley, Alameda Co, Calif
one (sp?) ♀? near line between oak
and Pittos. at 9:33 am after rain.

3 May 4pm highlands 2 small ones zipped thru fern.

18 Aug 89 jag 12:33 pm one ♀ type hovering
briefly over landing 6' from turbine & pinch.

8 Sept 11:45 am jag - ♀ "red" selasphorus
with green back on line & quickly hovering
about edges of the oak.

3 Aug 90 briefly one hovering in front of D-4
feeder & then S. Flanks red. minor red gorget. ♀?

14 Aug got a good look at one (9:22 am) with
green back a ♀. Saw twice yesterday
about white Pittos flowers. Allen H.

14 May 91 ♀ hovering on edge of oak canopy
- metallic green back, sides bright rufous
again at 9:37 hovering & numerous body
jabs - bill leading into oak leaf clusters.

17 May 7:58 am above back again - several
red gorget feathers.

18 May 11:26 has been in repeatedly, surface
gleaning on edge of oak canopy - every time
flies off to SE! Why if it's a migrant does it
go in same direction 1:38 in again - same.
1:42 again same.

19 May 8:50 same to oak.

20 May 10:07 about top of oak, off to E over house

22 May 11:04 Tag back hovering about oak,

23 May 9:17 am over 1 about top of oak, to E house.

25 May 10:26 am back feeding near top of oak

Winters
'87-88

Picoides villosus

1.

3 Oct. ~~del Norte St, Berkeley, Alameda Co., Calif.~~

1:10 pm clear, warm One on vertical branch of Quercus agrif. 20' +, S side, just under & in canopy. It preened & scratched bill (underwing). The bill seemed intermediate in length, and posture nat of a short-tailed ducery. Flew into house eaves. I did hear some very light pounding the first thing this am - 8 a.m.
no calls

7 July 1988 12:09 pm one hanging about on & near top of telephone pole across st. bright red spot on back, clear white belly

16 Feb. 89 11:14 am. one flew into up & elm 50' up, on 3" branch, flew down to another, no red on head & huffy upper breast. Larger than one yesterday. flew.

8 Apr 89 9:15 am this sp. from E to land 5' from top of utility pole as circle. then NW

13 Sept. 1:20 big one on 3" branches of NW elm 60' up both horizontal - exposed limbs & ^{under} cover.

25 Sept 89 9:37 am clear one in NW elm briefly (high on 2" branch) flew to top of the utility pole for 30 sec. then deep into NW elm.

28 Nov. 89 one in upper elm on 2" upright trunk, went up, flew 10' to another such branch, then 30' same - worked 6-8' up branch; flew high off to NW.

16 Jan 4:44 pm scattered canuli - 1 near top of elm up for 1 min. then to pa on vertical branch 1/4" + - size much bigger than finch.

12 Feb 90 - 3:10 pm ♀ in vertical limb 50' up on NW elm, 8" limb, no red.

1990-91-92 *Picooides villosus*

29 Dec.

8:56 am clear cold; 1 on vertical 3-5" branch of NW elm 70' up.

11 Jan 1991 1 ♂ on near vertical branch of W part of NW elm 70' up - at 1:38 pm bright red back of head & leg.

2 Feb ♂ on 3" limb 12' from top of W elm

2 Apr 11:59 am clear & from elms up SE to - 8' from top of W elm. On 2" & 1" branches for - 1 min. flew N.

15 Feb 92 3:43 pm overcast windy, 1 from SE into NW elm 50' up on 2" branch, flew to an 1 1/2" then to N grassy knob.

Christman
1992

Sphyrapicus ruber

19 Jan

4:01 pm clear, color 1 frame 5 to 1+
limb 8' from top of NW blue, 30 sec. then
to top of neacodas. heard no call.

Handwritten title or header text at the top of the page.

Date

Main body of handwritten text, appearing to be a list or series of notes.

Christman

1991-97

Picoides nuttallii

2 Apr., Del Norte St., Berkeley, Alameda Co., Calif.

2:13 1 ♂ has been working over on 1' + diam. trunks of elm across st. 15-20' + up & around. Red feathers on head raised good look.

11 Apr 2:31 pm clear windy. 1 ♂ up spec 1/5 of up st elm to - 2" limb, Δ angle, then to higher perch out of sight. Clearly a "ladder hawk" didn't see any red.

12 Apr 3:46 1 briefly on near vertical branch 80' up in NW elm - saw hairs & red head = ♂

19 Apr 10:42 ♂ on 3" branch in aab under canopy - hairs & red head.

30 Apr 96 10:55 am clear 1 ♂ up st elms, 60' + up going up 5" branch (vertical).

18 Jan. 97 2:10 p., overcast 1 in NW elm

14 Sept. clouds 11:50 ♂ on 2" branch 20' from top of NW elm. nice red crown.

27 Dec 1999 - 12:10 clear 1 ♂ on underside of 5" branch of elm 50' above street

Christman

1988,89

Picoides pubescens Downy

1

13 Aug., del Norte St. Berkeley, Alameda Co. Calif.

12:22 pm clear, coal. one 20' up on 4" branch of oak under canopy good leaf.

2 Jan 89 one in vertical elm branches 6-8" in diam. in sun, after clouds. going up slowly.

15 Feb 12:11 pm one flew from E; lit 50' up on up so elm. on 1" branch worked up 10-15' to 3' from end of branch, flew down 20' up to top again to 1/4" branch; and once again flew down 20' & worked up slowly to within 15" of very top of tree - 1/4" branch then flew NW. - with hatch today - pre-irrigation wandering?

12 Feb 1991 2:16 pm sunny saw ♂ on upper 3-5" branches of oak. tree is full of bush-tits may be another not sure.

4 Apr 10:52 am sunny ♀ on 14" trunk of elm across st. 15' up. it is small. 1:59 noon 2 in NW elm higher 1/4" on 1" branches & smaller - 1 has red.

6 Apr 7 am ♂ on side of top of telegraph pole across st to SW during a series of short dills which die heard last several mornings.

7 May '92 1 on 3" branches in NW elm. 3:58 now on - 1/2" branch near top - a ♀ slightly than house Finch.

21 May 9:34 am overcast 1 on near vertical NW elm branch 1/4", at top. 1 yesterday same

5 Apr 8:48 am ♂ on 1 1/2" branch near top NW elm.

7 Apr 2:33 pm clear 1 on 1/4" branch top NW elm.

30 Mar 96 11 am clear, 1 from S to 1" branch 6' from top of NW elm, no call, no red. 15' up.

16 June 3:17 pm Fog ♂ near top of apple tree 1/2" branch

23 Mar 1998 9:53 am clouds 1 ♂ high in NW elm 2 1/2" branches

Christmas
98

Picoides pubescens

2

30 Mar

10:38 am seen ♀ 80' + up in Noddy
on 3" branch.

Christman
1987

colaptes c.

1.

28 Sept, dd route 31, Berkeley Alameda Co., Calif.
1:40 clear, w. breeze calling "beet" high
the cedar tree

29 Sept 10:30 am clear coolish (one call
close in at 9 am) One in top of cedar up
street 90 yds NW called twice, quiet
flew down (to NE) after 3 minutes.

1 Oct 4:28 p. clear haze - quiet. One flew
in (a ♂) landed on ledge (with 6
mourning doves & a Br. To) called once
flew down to feeding area, saw me
& flew into the cedar & was calling -

2 Oct 12:17 clear - haze one has been calling in
neighborhood - one flew from cedar with
a "beet" then at tree level to cedar up
street. Then back here. Lots of calling.

3 Oct noon, clear warm one in top of
cedar up the street & is calling.

Yesterday one in backyard called loud

12:18 pm one foraging on limb of elm
25' up on 5" + branch 12:35 pm - in
same elm 7" branch 40' up, flew down
out of sight.

6 Oct. One is pecking away on a major elm
branch in front of house across the street.
it is 20' high (trees 50' + tall) at E side
of tree - over the street. The area is where
a branch was sawed off (was 7" ± in
diam.) is healed around perimeter, but
seems dead in middle. Some peaks are
near scraping out, others hanging.
The branch itself is 10" in diameter.
time 3:35 pm. 3:50 pm hopped up the main
branch - it doesn't have the red nest ash
on main area - lost it.

Christman
1987

colaptes c

2.

- 6 Oct., del Norte St., Berkeley, Alameda Co., CA
One called outside, then appeared 50' up in cedar on 5" branch 6" from trunk, then sailed down into oaks 25' to NE - can't see it. no call. They have a slow heavy flight with deep wing beats and a momentary wing retraction to body = undulating flight. Not agile, but strong-direct.
- 7 Oct + 9:30 am jag - one called E of house
12:15 pm one flew over, called once. Then on power pole at the circle (top of pole even with upper belly) - then flew to elm - 2" branch in NE part of tree. { one flew from SW to NE just over the H. ^{no} call
- 12 Oct high clouds, sunny
- 17 Oct. has been about neighborhood
This afternoon in cedar a 100 yds up street (perhaps one call) a scrub jay landed 5' below - flicker flew down. The jay followed, but no overt interest.
- 25 Oct 8 am one calling in park, not seen
- 29 Oct 8 am + lots of calling, not seen
- 14 Nov. 9:37 am clear one flew by to E
- 16 Nov. 1 pm low clouds + active in elms - major trunks (only pecked at sawed off areas - softwood) 2 pm perched near top of NW closest 1/4" branch; vertical, hunched up, fluffing, stretching wing & tail - fanning. Only one or 2 calls - flew to top of telephone pole at circle (top of)
- 7 Dec. 3:35 pm. twice today one calling -
- 11 Dec 12 pm clear one working at sawed off branch on nearest elm to NW 15' up. This seems consistent with one (at least) working in neighborhood.

Christman
1987

Colaptes c

3

- 11 Dec. del Norte St., Berkeley, Alameda Co., CA.
calls infrequently. 12:25 pm ♀ on 4" major branch above. 1:36 pm flying between 2ndary trunks of elms up street. 1:55 pm back at elm trunks: started in ~~the~~ nearest one across st. at 12' jumped up + 1' trunk up to about 30' then flew 30' to branch with dead stump hole & started pecking at the ? soft wood. Ok, saw 2 flickers — one flew into elm from S & another flew from that tree to another. Is this a pair? Can't determine now
2:10 pm put scope on one — a ♂ and chips were flying as he banged away at stump hole, at 50 yards ± from here.
5 Jan. heard one calling up the street 8:30 am
10 Jan noon foggy one calling in top of cedar
1 Feb sunny — one flew to NW
15 Feb one calling in cedar at 8:49 am
18 Feb 9:20 a.m. one flew to top of cedar up st. briefly
21 Feb 1:15 ± pm one called several times
4 Mar. 8:54 am one (♀?) on 1" limb 25' up in first elm on S. side up st. a Fox Sq. approached on 2ndary trunk 6' away; it flew higher up in tree obscured by samara branches on S side of NW elm. 10: a.m. The lady across the st. parked her car in the driveway & walked up the side walk to the walkway to house & stopped and looked intently at the side walk, then stepped back & looked up. With glasses I saw an area a yard sq with fresh wood chips. This is the precise area where flicker was — a dead cut-off branch — has the bird been excavating here for a nest

Christman
1988

Colaptes cafer

4

4 Mar. del Norte st., Berkeley, Alameda Co., Calif
1:19 pm one on top of power pole at circle,
flew NW after 2 minutes.

27 Sept from the N a flicker into top of
up st cedar. Flew to NW after 30 sec.
The first seen since above.

29 Sept yesterday saw one fly by $\frac{1}{2}$
mi. S of house. This am. heard at Tan
& a number of calls at 8:30 am.

30 Sept off & on today one calling in neighborhood

2 Oct off & on most of day - calls fairly close.

3 Oct 12:51 am one flew up into cedar & called
it continues to call; none from E ^{no call.}

4 Oct. one NW to S over tops of elms at 10:23 am

6 Oct 11:13 am fog. one called - ? in near
cedar. Then one flew in an erratic dive
down over oak, changed direction several
times - tail fanned & shot up into
middle of up st elms to a vertical
3' branch, then hopped about some
near horizontal branches.

7 Oct 8:41 am one calling

9 Oct 8:31 am one calling.

12 Oct one called frequently about 8:30 am

16 Oct 3:17 pm one in top of up st cedar - bay
top - hat almost clear. Wings almost spread
full drooping - sunning - bill open 3:19
flew low to S.

18 Oct 8:15 am one flew over to N.

20 Oct. in late sunny afternoon after calls.

21 Oct 11:44 fog one in SW elm middle out "
limb, flew low - W no call. Thinks there is
another one about. 2:58 pm one in NW elm
mid-tree then flew up to near top on a
 $\frac{1}{2}$ " branch.

Christman

5

1988-89

Colaptes cafer

22 Oct, del Norte St., Berkeley, Alameda Co., Calif

9:25 am one calling to NW. 9:34 am

one flew up steeply from S into top of upst. cedar, called & just there looking about.

9:38 flew down, N & called several times.

23 Oct 10:40 am fog "wika, wika" & "Ki" calls from near cedar.

25 Oct. one flew at 10:34 am into top of upst. cedar — no call (can't determine sex). flew on — ?

27 Oct, 1:56 pm one flew from upst. cedar top in deep swooping, undulations to my cedar & called "Kee" several times.

1 Nov ~~at~~ 10:16 am one called twice then flew past from NW to S. over tops of trees.

3 Nov 10:45 am overcast, redrizzle one called from the NW. ? winter wandering; not many.

2:38 pm one calling from near cedar.

21 Nov overcast 1:27 pm one calling close.

29 Nov 4:11 pm one calling in near cedar.

8 Dec 3:26 pm one calling in near cedar, quiet.

28 Dec 11:35 am One calling in backyard, saw it fly to neighbor's Photinia — top of 10' tree where it picked red berries & swallowed them.

1 Jan 89 11 am one in oak in back, calling.

7 Feb 10:26 am one calling close, 11:31 am one calling in oak in back yard — 20' up on exposed 3" branch "Ki" call — the yellow

cat walking beneath. Flew 6' to a 4" branch, then down to branch of Photinia

with few red berries, started eating berries?

9 Feb 4:08 pm 2 to N; 100 yds NW

10 Feb 1 pm overcast, one in top of upst cedar briefly

Christman
1989

6

Colaptes cafer

16 Feb., Red Norte St., Berkeley, Alameda Co., CA

4pm one flew S to N right in front of window

20 Feb 7:30 am fog - K-K-K call close by.

1 Mar 2:57 pm cloudy one flew in front of window from N into cedar near door landed on horizontal 6" branch, 4' from trunk.

23 Mar 9:35 overcast one from S low to elm on E side of St - 12' up; then flew to 2nd elm up st. (W side) 15' up, was investigating hole where limb sawed off 20' trunk, 10:11 one in top of up St cedar. sex? (♀?)

29 Mar ♀ at fork of trunks in first elm across St. to NW 25' from street, then on vertical 8" limb

21 Sept 9:33 am clear 2 100 yds apart ^{to} E well over elms. First of season.

1 Oct noon ± clear, one called cedar, flew S.

2 Oct 2 pm one called several times from near cedar.

4 Oct 12:46 pm one " " " " " "

13 Oct 4 pm one called from " " "

24 Oct 12:35 pm one from S into top up St cedar flew down. 12:37 back at top. 12:39 ♀ on ~~side~~ horizontal branch 50' up in elm then flew to another elm up street. 12:57 one from near cedar to near top of NW elm onto 1/2" branch, seems to be ♀ (and calling far to N.) - it is 7' from a preening scrub J. flew N.

1:01 pm a ♂ now in top NW elm 6' from scrub J.

they can negotiate 1/4" branches. 1:20 pm two on side walls near a pile of wood near side walk up st. both flew 20' up in elm as ^{approached}

27 Oct 9:51 am one flew up over elms from across st. Strong direct flight

Christman
1989-90

colaptes cafer

7

30 Oct., Del Norte St., Berkeley, Alameda Co., Calif

10:05 am breezy one to top of up st cedar & calling "Kee". 07 am flew down to N.

1 Nov. 8:27 am one out of NW to top of ~~the~~ ^{near} cedar

8:36 one out of N to S. 75-yds W. of me; one out of NW to top of near cedar - no calls.

2 Nov 8:30 am one flew over elms S to N

and calling near earlier. 9:45 am one on

3" 90° angle [branch of elm, up st. another flew deeper into same tree. 10:05 ♀ among ivy on top of near utility pole across the st., for 1 minute.

9 Nov 10:15 am for 10 min. + one on top of utility pole at circle looked like it was probing (not hanging away) in a crack, then at another pole farther to W.

19 Nov 8:53 am there has been at least 1 perched on utility pole at circle as briefly as ever. Is this same bird, winter feeding area? few calls in last week, to

20 Nov 9:57 am. one on top of utility pole at circle briefly - 4:17 pm calling closely - cedar?

28 Nov 8:27 am strong N wind. One from high in near cedar to W. heard no call.

5 Dec 2:30 pm fog - one calling in near cedar

28 Dec 2:15 pm clear, light breeze one in top of NW elm for 5 minutes.

19 Jan 1990 10:27 pretty clear, breeze one flew into top of up st. cedar. 10:29 flew S & down.

27 Jan 3:53 pm clear; one from top of one utility pole to another at circle.

7 Feb 9:27 am clear, 1 N to S over elms, no call.

11 Feb 11:20 am one calling. (up st

1 Mar 4:06 pm briefly one from S to top cedar

Christman
1990

Colaptes cafer

8

5 Mar., del Norte St., Berkeley, Alameda Co., Cal.

4:01 pm bright sun, one calling from near cedar

9 Mar. 9:57 am 1 rather high S to N.; 1 below
elms from SW to NE. no calls. 10:20 am
one briefly in top of up st. cedar.

11 Mar. 9:24 am 1 top utility pole W circle.

15 Mar. 8:31 am 1 calling close by.

28 Sept. 11:24 am 1 high S to N, no call.

6 Oct. 11:20 am 1 high to N. 11:46 another
high to NW - neither called.

9 Oct. 12:43 pm clear, warm 2 - 20 yds
apart to 5 acres NW elm.

9 ~~Oct~~ Oct 9:30 am 1 flying N, over cedar.
have heard no calls 9:53 am 1 over-
head to SW?

10 Oct 12:38 pm 1 calling NW in distance.

15 Oct 3:40 pm 1 top up st cedar; heard one ~~at~~ ^{earlier}

17 Oct 12:20 pm 1 out of 5 law, up into top of
NW elm on $\frac{1}{2}$ " branch - called twice
& flew NE. Heard calls earlier: high 1 note.
12:22 1 top of elm height SW to NE; high flash-
ing salmon pink wing, strong direct flight.

24 Oct 4 pm 1 calling in near cedar - 5 ft.

27 Oct 10:25 am 1 on top utility pole at circle

8 Nov. 2:44 pm 1 calling close in.

10 Nov 1:56 pm 1 top of up st cedar. no call

26 Nov 8:48 am 1 flew over to NW clear

10:39 am 1 pecking at old limb butt on elm
#1 across st, 25' up, flew N

28 Nov noon 1 to top util pole at circle

16 Dec 10:46 am clear cool, 1 in top of up st cedar

18 Dec scattered clouds & wind, 1 to top of up
st cedar for 45 sec. tree swaying, strong
flight, deep modulations.

Christman
1990-91

9

Colaptes cafer

- 31 Dec. all birds S.E. Berkeley, Alameda Co., Cal
11:34 am clear, cool 1 across S to NE
- 29 Jan 91 1 from S to horizon. limb 8' from
top of upst cedar at 9:14 am. Doing same
forward haws. 9:18 flew down to N.
- 30 Jan 8:28 1 flew N to S well above elms
8:37 1 in top NW elm.
- 1 Feb 9:58 am 1 in top upst cedar. 10:08 flew ^{high} NE
- 11 Feb 9:18 am 1 from NW high directly to
top of near cedar, called twice. Flight
flap - glide with wings momentarily to body
then flap; slow jerky flight - glide.
- 13 Feb 9:13 am 1 flew across low to NW.
- 16 Feb 9:23 am 1 calling from cedar.
- 21 Feb 11:12 am across; 1 from N to top cedar ^{near}
- 10 Mar 1:10 light rain; 1 S to N across tree.
- 20 Mar 11:10 variable clouds 1 called: the
repetitive "chik, chik, chik" call. close in.
- 30 Mar. 9:02 am clear, 1 on side of top utility
pole beyond the circle. 9:07 flew to upper
part of upst elm, then down to area of
first branching of trunks - diam. + 15"
- 12' to 20' changed perch several times.
9:11 now at old rotten butt of sawed off
limb 20' up (several years ago 1 at
same spot!). 9:35 flew from 1st elm
across N. to 25' up to major branches of
NW elm.
-
- 8 Oct 91. 11:04 ^{am} clear 2 to NW over elms ^{no calls.}
- 12 Oct 9:51 am clear after fog; 1 ♀ (?) top of up
st cedar.
- 14 Oct 2:45 pm 1 calling in near cedar.
- 20 Oct 11:01 am clear - windy 1 low to NW.
- 28 Oct 8:08 am clear 1 high S to N

Christman

10

1991-92-93 *Colaptes cafer*

28 Oct, ~~Del Norte St.~~ Berkeley, Alameda Co., Calif
9:05 am = 1 (?♀) top up st cedar 2 minutes
then flew N.

31 Oct 11:50 am 1 landed ~~top~~ briefly on
1/4" branch near top of up st. elm.

12 Nov 4:34 pm clear, daisy 1 top up st cedar
a few calls, stretches out & haws head - each.

15 Nov 8:37 am. windy. 1 calling close in (NW?).

30 Nov 10:57 am clear & windy 1 flew over to N.

3 Dec 8:40 am clear, calm 1 in top up st cedar

20 Dec 2:11 pm calm clear. 1 from N over
oak into near Atlas cedar landed on
horizontal 4" branch, 15" from trunk &
gave 3 haws, no call, 1 min. flew SE.
Had been calling in distance.

6 Jan. 4:02 pm cloudy 1 to top up st cedar
where it gave numerous quick haws.

2 Mar 11:37 am overcast 1 top up st cedar
heard 1 calling yesterday a.m.

28 Sept 2:05 pm clear, hard 1 close in.

1 Oct 12:17 overcast has been rain - 1
calling close in - NW?

3 Oct 4:41 pm clear, 1 calling repeatedly in cedar. ^{near}

7 Oct 10:34 am clear, 1 calling somewhere.

20 Oct 10:59 am fog 1 calling - high in cedar.

14 Nov 11:15 am few cirrus. 1 on thin elm
branch, top, up st. vertical. awkward
have occasional heart calling.

28 Nov 1:03 clear 1 flew up to horizontal branch
of up st cedar, 8' from top, 5' from trunk.

10 Dec 12:25 light rain. a ♀ flew down from
cedar to NW ledge, looked about a tree
& finches fed; lab up then flew to roof.

22 Jan 93 10:04 am clear 1 flew thru NW elm
ring. to S

Christman
1993-94 calypte cater

11

11 Oct

11 am 1 calling from near cedar.
first he heard this fall 11:03
its near top of up-sr cedar.

1 Nov. 2:18 pm 1 has been calling near.

19 Nov. 1:27 pm clear, windy, 1 in top NW
elm for 2 min. 3 perches on $\pm \frac{1}{4}$ " branches
unfamilarly, no call. pink.

19 Mar. 94 9:40 am clear 6 calls, "Kee", ?
from near cedar?

10 Oct. 12:57 pm clear, spots of fog. 1 in
top NW elm for 1 min. + no call. 1st heard
1 about 10 am. 3:19 1 circled overhead.

11 Oct 12:56 pm clear 1 SW to NE $\frac{3}{4}$ up
NW elm in height, no calls. 1:-pm
same again², overhause.

15 Oct 2:40 clear, windy. ♂ on 8" diam.

sublimb 12' up in back yard, no call.

30 Oct 9:47 am clear 1 flew to 4" branch
in up sr elm.

16 Oct + 95 6:45 am fog lots of calls close in.

18 Oct. 12:11 pm clear 1 rather high 5 to N, no call.

21 Oct 3:30 pm clear; calls off & on all day.

30 Oct 9:30 am fog, several calls.

7 Nov. 12:15 pm clear 1 to w from NE,
held a tree level, no call. Later, flew all.

22 Feb 96 9:27 am flew cumuli 1 in top NW elm.

2 Mar in last 2 day 3 or 4 ~~calls~~ ^{calls} in close
1 top of up sr cedar & today 1 top of NW elm

14 Mar clear 1:01 pm 1 in top up sr cedar.

this past week have heard them more.

24 Sept. 10:26 am fog - 1 top up sr cedar.

26 Sept last 2 am 1 calling close in about 1 am

18 Jan 97 fog 1:55 p. 1 calling from near cedar

The first of these is the fact that the
the second is the fact that the
the third is the fact that the
the fourth is the fact that the
the fifth is the fact that the
the sixth is the fact that the
the seventh is the fact that the
the eighth is the fact that the
the ninth is the fact that the
the tenth is the fact that the
the eleventh is the fact that the
the twelfth is the fact that the
the thirteenth is the fact that the
the fourteenth is the fact that the
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Christman
97

Colaptes cafer.

12

14 Mar

9:25 am high cinnus - 1 top up cedar.

27 Mar clear, 1 to top near cedar, 3:34 pm ^{no call} _{yes}

29 Mar clear, 6 am 1 called from near cedar

14 Oct 11:15 am clear, 1 calling nearby.

16 Jan 1999 light rain first calls of winter

10. The first of these is the fact that the

Washburn
'87-88

Eupidonax

1.

3 Oct. del Norte St. Berkeley, Alameda Co., Calif
1 pm clear, warm one or two have
been active - flying about, good
look 50' up in almost bare elm
on $\frac{1}{4}$ " limb. Venter was a yellowish
cast. didn't stay on one side for
over several seconds. This is just
one this fall - never see very many.

19 June one in oak & in elm high yellow-green
at 12:11 pm.

7 Aug. '88 one briefly on line 30' from house
the back was alive.

27 Aug 10:54 am one within canopy of top of elm
again in oak 11:25 am within canopy in a
gap between branches, place NE. 30' up.

29 Aug 4:40 pm one in heavy mist but dull
greenish on ends of vertical branches in
top of oak, foraged into clusters of
leaves to pick up an insect 2-3 mm &
fly to W.

7 Oct. 11:04 am one on line near Pittos -
it is very yellow, esp. on upper breast & on
ashyish brown head. flew into the oak.

25 May '89 noon one in backyard on
branch 38" above ground on hillside,
then flew up into oak. pale greenish.

30 May 9:17 am one in oak on $\frac{1}{2}$ " branches
on edge of canopy gleaned off leaves
at least once.

31 May 9:43 am one on $\frac{1}{2}$ " branch of oak
under the canopy, Sally's forth it has
a greenish cast to upper body.

4 July 11:09 am clear one briefly on line 13' from
house & 3 ft from Pittos - flew down
it was greenish / yellow color scheme.

[Faint, illegible handwriting throughout the page]

26 July, del Norte St. Berkeley, Alameda Co. CA
10:15 am jag one on line 15' from house
upright, a crest, light dull greenish drap
eyering & a crest, flipped tail up to
an extreme extent. nervous, active.

7 Aug 11:42 am one on line briefly 5'
from oak, flipped tail then low to N.

6 Sept 10:33 am one on line 1' from
Pittos. sitting hunched up, upright. This
bird is more yellow than most. back is
yellow-olive. flips tail.

8 Sept 10:30 am jag, one (same bird?)
on line briefly - flits wings and tail.

17 Sept 9:06 am clouds one yellow-green
drab on line next to Pittos for 30 sec ^{no} ^{most} ^{evident}

19 Sept 9:13 am cloudy hawk at its station on
the utility line next to the Pittos for 1 min ±

28 Apr ¹⁹⁹⁰ 11:28 am 1 deep in Pittos "P-ce" call
- gray back-head, eye ring. 1990 11:36

on line very briefly - is it the
one making a monotonous series of
call notes - "chook" repetitive.

21 May 1990 8:34 am 1 twice on line alive
flipping tail, etc.

27 May 12-pm a plaintive little "seep" then 1
upright on - 1/4" limb just under canopy of
oak. not raining just then.

29 May 1:42 pm partly clear windy one on bar. 1"
limb well under canopy of oak.

12 Apr '91 noon - 1 briefly on line 6'
from house appears larger than Kinglet
no wing flips 12:05 saw again gray-green
back & dull gray lighter under. Dorsum more
gray than green - no call.

14 Apr 1 on line then into Pittos - call a simple
"chip", big eyes.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has a solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

1991-95

Empidonax

19 Apr

a good look at individual who is making repetitive 1 syllable "pew" call. Tentative id.: E. oberholzeri "see" = NGS. bird on line under cedar.

15' up.

21 May 10:31 1 on line 20" from oak, lance. mand. ill. yellow, faint yellow under, faint green dorsum, ventile, same tail feathers.

19 June 93 4:04 clear warm 1 on line 4' from oak branch.

6 July 1 pm part fog. 1 on line briefly, browned

13 May 94 several ages this week have seen 1 in backyard under the oak. at 1 pm today saw 2 a yard apart in Platanus - tail flip, up right posture.

12 June for past 2 weeks +, 1 (sometimes 2) on line in front flycatching but very often on oak canopy clusters, into oak & out other side. believe it's E. oberholzeri - Dusky F. also seen in backyard

22 June 10: am 1 on line in front - have not seen one in 3 days

12 July 3:21 clear 1 at oak & on line in front.

21 July 2:30 have seen 1 in front, none in back lately. now: 3 on line 1 fed another - then flew. so at least 1 juv.

30 Mar 9:09 ^{g.m.} clear 1 in top of cedar.

21 Apr 95 7:50 am clear, calm 2 on lower twigs of oak in backyard - both seem kind of

29 May clear 9 am 1 in oak in back; maybe ringing out like they are nesting again.

June 7 7:30 am clear 1 in back oak, mid. canopy

Christman
95

Empidonax

4

9 June

10:45 am fog 1 making a wide, zigzag chase of 20' \pm over oak lawnward, then resting on line.

12 June 8:37 am clear, 1 flycatching on every edge of oak.

14 June clouds, recent rain 5:40 1 about oak - on line then low to N.

13 ~~June~~ 1:30 pm clear 1 about Elderberry & perched on fence. Call "see-see"

12 July clear 10:54 am 1 on line flycatching about canopy of oak

3 Oct 96 10:30 am clear 1 on line between Pittosporum & oak briefly.

30 Sept 1998 1:438 pm overcast 1 seen 2 times resting on line between Pittosp. & oak.

2 Oct sun. 10:40 am 1 in Linden tree - it had caught a butterfly off the oak & was knocking off the wings.

7 Oct 12:14 pm fog; 1 on line between Oak & Pittos. upper breast - throat ^{ting.} bright yellow

29 Apr. 2000, clear, 10:32 am. 1 olive-brown 1 on line next door to N.

Handwritten text in the main body of the page, consisting of several paragraphs. The text is written in cursive and is mostly illegible due to blurring.

Christman
1991

Sagovuis nigricans

24 Jan.

8:25 am clear cool. 1 top up N. clear good
view from ridge to SW more 3 H. finches
within 15' of it.

Misthusen
1989-90

Vireo gilvus

1

24 Mar, del Norte St., Berkeley, Alameda Co., Cal
6:55 am a good look at one on line
then into the aab. line over eye, etc. an
olive tan. no call.

28 Mar 2:23 pm one near top of aab; under
covered new leaves & catkins. 2:29 only
brief sightings, esp. when 1' sally's to leave -
glean outer surface of new leaves. Achidodee
also in tree. 3:19 it has been in aab most of
time but only see branches move, or
a hovering. This guy in closed canopy
feeder most of time.

30 Mar for several minutes smaller
branches were sharply jared - could it
see bird - it was completely in the
dense canopy - then saw head - 1:07 pm
29 May 1:50 clear windy one from N into top
part of aab - a good look, flew S, no call.
came back & foraged upper S aab to lower
- mid section slow methodical forage and
in the canopy at all times flew 2' to
line near to aab then N. Still no call or
singing. Similar foraging as warbler but
more secretive in canopy & not as active
as warbler (townsend).

5 July 9:04 am quick look at a vireo
with white superciliary line & slate
blue head - flew into aab from W - in
edge of canopy then flew N.

24 Mar. 90 8:50 am heard one singing 150 yds W ^{of house}

6 May 91 9:25 at least 1 foraging near top of aab,
no song in denser canopy. difficult to see.

14 May 8:28 am good look at 1 in aab, head a 1/2"
larvae in bill. 8:56 back in aab, deep in canopy

Christman
1991

2

Vireo gilvus

14 May del Norte St., Berkeley, Alameda Co., Calif
11:39 1 hawk in oak well within canopy, no song

15 May 11:03 am. 1 in canopy of oak, in the
leaves - 'twiggy' dense hard to see.

16 May 2:03 pm clouds & wind. 1 in oak canopy

12. 2004.

1. The first of these is the fact that the
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12 Feb., del Norte St., Berkeley, Alameda Co., Calif.
1:25 pm one in oak - the new call! also
a R-C Kinglet in same tree.

14 Feb noon +. The call we heard recently
"pew-pew" high, loud & clear. Also, a variant
of that call (see journal) a repetitive
"dee-dee-dee" - close but can't locate it.

15 Feb 8:30 am loud clear "sweet-sweet" ^{where} same

16 Feb 2:55 ~~sa~~ "Su-et" in pairs; a sharper
fuller note in a series. Can't see it - in oak
to NW.

17 Feb saw the "Su-et" bird today = Plain Titmouse

